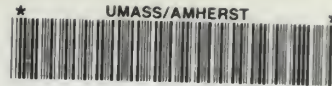


MASS. MA2.2: MB8/3/L. Merr. ✓

Commonwealth of Massachusetts

E Department of
Employment
and Training



312066 0282 4487 3

Massachusetts Service Delivery Area Job Market Reports: **The Lower Merrimack Valley SDA**

1991

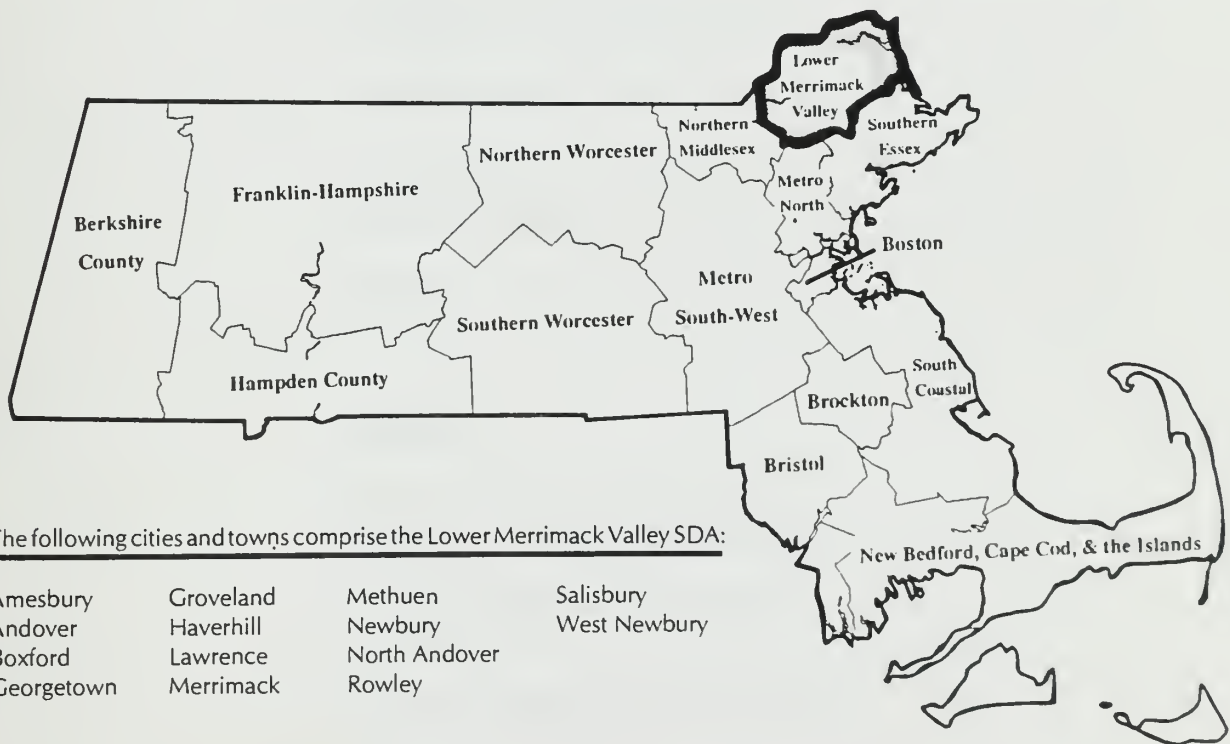
1991

1991

1991

913/70

Massachusetts Service Delivery Area Job Market Reports: The Lower Merrimack Valley SDA



Contents

Introduction: the SDA Job Market Reports	1
How to Interpret the Job Market and Use the Reports	2
Overview: Job Trends in the SDAs	4
The SDA Profile	12
Notes About the Data	53
Appendix	54

Tables

Changes in Population, Employment and Unemployment by Service Delivery Area	4
Job Growth in Service Delivery Areas by Sector, 1984-1989	6
Distribution of Jobs in Service Delivery Areas by Industry and Occupation	8
1989 Average Annual Wages by SDA and Industry	10
Employment in Major Groups	14

Top Ten Occupations and Industries with the Largest Employment.....	15
Labor Force, Employment and Unemployment	16
Table A: Employment by Occupation.....	18
Table B: Employment in Selected Occupations by Industry	27
Table C: Employment in Selected Industries by Occupation	40

Charts

Industries differ substantially in the kinds of workers they employ	3
Unemployment Rates 1984-1990, Massachusetts and U.S.	8
Percentage share of employment rising fastest in occupational groups requiring more education and decreasing in occupations requiring less education	10
Distribution of Employment by Industry and Occupation	13



Digitized by the Internet Archive
in 2014

https://archive.org/details/massachusettsser00mass_3

Introduction: the SDA Job Market Reports

This report analyzes the economies and job markets of the Commonwealth's 15 Service Delivery Areas between 1984 and 1990. It examines the kind of jobs that local areas generated or lost over the period, the industries that make up the area, the average earnings of workers, the level of unemployment and education in the workforce, and the distribution of jobs by occupation.

This report provides an overview of the emerging economic forces changing the job market. Data on local area population, labor force, employment, unemployment, job growth, wages, and income are included as well as information on how to interpret and use the data.

This report also analyzes the occupational staffing patterns of local economies, publishing for the first time, a detailed occupational employment data base by SDA. Labor leaders, educators, human resource specialists, and Regional Employment Boards can use this data to:

study the geographical movement of jobs and workers within the state to relate the location and number of workers by occupation to demand.

assess and analyze the occupational composition of jobs and skill requirements within areas.

There are 15 Service Delivery Areas in Massachusetts, each profiled in a separate report. Each report, however, contains an overview of the economic growth in all service delivery areas. Refer to the appendix for a listing of the cities and towns comprising a service delivery area.

Service Delivery Areas were established under the provisions of the 1983 federal Job Training Partnership Act, to tailor the Commonwealth's employment and training programs to the needs of citizens in local areas. Some service delivery areas consist of a single county; others are comprised of two or more counties. The Boston Service Delivery Area is the only single-city SDA, while others cross county lines.

plan and design education and training programs

How to Interpret the Job Market and Use the Reports

This report is divided into two sections. Section I summarizes the changes in population, employment and unemployment in all 15 Service Delivery Areas, highlighting the geographic concentration of jobs by industry and occupation. Section II profiles the respective service delivery area and presents a detailed series of tables on the area's occupations and industries.

Table A in Section II lists the number of jobs by occupation and provides the percent distribution of the jobs within the area, highlighting the diverse occupational structure of the SDA. Occupations are grouped by skill level to allow comparisons of similar or related occupations.

Table B in Section II lists the industries where jobs are found in major occupations. Finally, Table C presents the number and type of jobs found in major industries in the local economy. Industries are defined in terms of the Standard Industrial Classification (SIC) system. A detailed description of the SIC, including industry definitions is contained in

the *Standard Industrial Classification Manual, 1972* and the *1977 Supplement*.

How to Use the Data

The following sections briefly outline how to interpret and use the data.

Population

Population trends provide a measure of an area's economic stability. If an area has high unemployment and is losing its economic base, a decline in employment usually results in an eventual decrease in population and income. The opposite is generally true in areas with fast growing economies. The more jobs an area generates, the more people move into the area to seek employment. Population growth, however, can occur independently of employment in certain areas, particularly if the region is a retirement community.

Population changes from natural increases, the difference in the number of births and deaths, and migration, are identified in Table I.

The 1980 and 1988 population estimates are from the Bureau of the Census. Natural increases are derived from the Massachusetts Department of Public Health's estimates of births and deaths. Net migration estimates are derived by subtracting the total net change in population from the natural increase.

Labor Force

The size and characteristics of the labor force determine the number and type of people competing for jobs. Changes in educational requirements, the size of the labor force, and the age structure affect employment opportunities.

Table I lists the total number of persons in the labor force, i.e., those that are either employed or unemployed. This count is residentially-based and includes self-employed and unpaid family workers in addition to wage and salary workers.

Growth vs. Number of Jobs

When assessing an area's economic viability, it is important to distinguish between an area's rate of job creation and the number of jobs generated. Even though an area has a fast rate of job growth it may generate fewer numbers of jobs than slow growing areas. For example, the Brockton Service Delivery Area had the second fastest job growth rate, but generated only 4.7 percent of the Commonwealth's jobs. Many of these jobs were low paying and decreased the area's percentage share of total state wages. By comparison, the city of Boston was the slowest growing area, with job growth averaging 0.7 percent per year. Nevertheless, because of its size it generated 7.6 percent of the state's jobs.

The industry employment data shown in Table 2 is compiled through the Department of Employment and

Training's Employment and Wage program. Employment in this context is the count of all persons on the payroll of establishments subject to the Massachusetts Employment Security Law. Employment data were not adjusted to account for such factors as noneconomic coding changes, Standard Industrial Classification code changes, or changes in the multi-location employer reporting. However, since the data are confined to SDAs and large industries and sectors, comparisons of broad economic trends can be made.

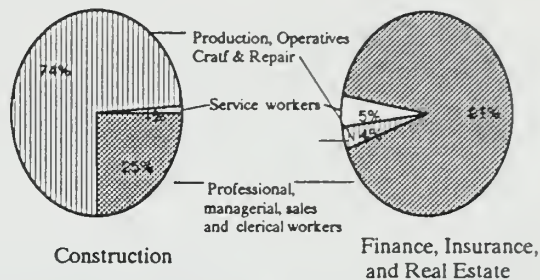
Distribution of Jobs by Industry and Occupation

The number of jobs in an SDA depends in large part on the demand for goods and services produced by the area's industries. The growth or decline of an industry, however, has varying effects on individual occupations because industries employ different types of workers. Growth of manufacturing industries, for example, would tend to increase the employment of engineers, technicians and machine operators. In contrast, growth in the finance, insurance, and real estate industries would likely increase the employment of economists, financial analysts and sales and clerical workers.

The distribution of jobs by occupation in Tables 3, A, B and C is based on 1987 data collected by the Occupational Employment Statistics (OES) program, a Federal-State cooperative program. The OES data show how different industries, and different firms in the same industry employ workers in various skills. Over time the data can provide insights into how jobs are affected by technical advances, foreign competition, and shifts in the demand for goods and services.

Chart 1: Industries Differ Substantially in the Kind of Workers They Employ

Percent Distribution of Wage & Salary Workers, 1987



Occupational staffing patterns are based on 1987 data. Over the short-term, occupational staffing patterns are not significantly affected by changes in the job market. Over the long-term, however, staffing patterns are affected by changes in technology and the number of new workers.

Occupational staffing pattern data were obtained for all industries, except for workers employed in agriculture, private households and the federal government. The industries covered in these tables thus account for 97 percent of all wage and salary workers.

Average Annual Wages

Average wage data give a comparative measure of how well jobs pay in specific areas and industries. The data, compiled through the Employment and Wage program, approximates an average annual wage by area and industry. It is computed by dividing total wages by the total number of workers employed.

Annual pay data only approximate annual earnings because an individual may not be employed by the same employer all year, or may work for more than one employer. Annual pay is also affected by the ratio of full-time to part-time workers as well as the number of individuals in

high paying and low paying occupations. Industries characterized by high numbers of part-time workers, such as retail trade, show wage levels appreciably below other industries. The opposite effect characterizes industries with low percentages of part-time workers, or industries which typically have heavy overtime work. Average annual wage data may also be influenced by work stoppages, bonus and retroactive pay, and seasonal factors.

Average wages are computed by place of work. Therefore, the earnings of commuters who reside in one area and work in another, are counted in the area of employment.

Per Capita Income

Per capita income data give a comparative measure of the income of people living in the area versus wage data which reflect earnings of workers who are employed in the area but do not live there. It is computed by dividing total personal income, the sum of earned income from all sources, by the population. Total personal income includes wages and salaries, interest, dividends, and rents, social security etc. Data on per capita income is provided for counties only. It is included to give a more comprehensive picture of an area's economic well-being.

Overview:

Job Trends in the SDAs

The Massachusetts economy performed well between 1984 and 1988. Job growth averaged 2.4 percent per year and average annual wages rose 31.1 percent to \$24,150. (In terms of 1982-84 constant dollars wages rose 15.2 percent.) Unemployment stood at 3.3 percent, a level so low that some economists believed Massachusetts had reached full employment. In 1989 Massachusetts employment growth leveled off. Unemployment inched up to 4.0 percent, but it still ranked Massachu-

setts with one of the lowest jobless rates of the 11 large states. In 1990, however, the industries that generated the bulk of the jobs--construction, services, retail trade, finance, insurance and real estate--declined. Unemployment was up 50 percent from 1989, averaging 189,000 workers or 6.0 percent. Massachusetts' unemployment rate is now higher than the nation's, averaging 9.2 percent (287,000 unemployed workers) during first quarter 1991.

Much of the employment in Massachusetts is concentrated in relatively few metropolitan areas. During the eighties, however, the state's job growth was diversified, as the city of Boston recorded the slowest growth rate of the 15 SDA's. But what areas generated the most jobs between 1984 and 1989? What areas had fast growing economies, low levels of unemployment, and high wages? What areas lost the most manufacturing jobs during the period? Which recorded the highest rates of unemployment in 1990? The following tables show the trends that highlight the answers to these questions.

Population Growth

Table I identifies the SDAs that increased or decreased in population over the decade. It highlights the factors underlying population changes--the natural increase, or the net difference between the number of births and deaths that occurred

Table 1: Changes in Population, Employment, and Unemployment by Service Delivery Area
(Data based on residential counts)

	Berkshire County	Franklin Hampshire	Hampden County	Northern Worcester	Southern Worcester	Northern Middlesex	Lower Merrimack	Southern Essex
1980 Population ⁽¹⁾	145,110	216,696	443,018	208,324	454,116	226,991	260,893	372,795
1988 Population ⁽¹⁾	138,720	224,420	449,950	225,650	471,300	244,320	279,100	375,180
Natural Increase ⁽²⁾	2,014	6,631	17,123	13,861	18,521	16,186	14,825	11,202
Net Migration ⁽³⁾	(8,404)	1,093	(10,191)	3,465	(1,337)	1,143	3,382	(8,817)
Total Net Change	(6,690)	7,724	6,932	17,326	17,183	17,329	18,207	2,385
1988								
Civilian Workforce	72,490	119,780	216,530	108,550	245,820	142,600	137,570	216,270
Employed	69,330	116,120	209,170	104,800	237,880	137,780	132,040	208,960
Unemployed	3,170	3,670	7,370	3,750	7,940	4,820	5,540	7,310
Unemployment Rate	4.4	3.1	3.4	3.5	3.2	3.4	4.0	3.4
1989								
Civilian Workforce	73,250	121,250	217,710	108,280	247,670	143,600	138,880	220,170
Employed	70,040	116,730	208,650	103,270	237,390	137,170	131,620	211,910
Unemployed	3,210	4,520	9,070	5,020	10,280	6,430	7,260	8,260
Unemployment Rate	4.4	3.7	4.2	4.6	4.2	4.5	5.2	3.8
1990								
Civilian Workforce	74,040	123,530	218,520	107,020	245,550	139,780	136,640	220,380
Employed	69,450	116,940	205,410	99,090	229,430	130,300	126,380	208,360
Unemployed	4,590	6,590	13,120	7,940	16,120	9,480	10,250	12,020
Unemployment Rate	6.2	5.3	6.0	7.4	6.6	6.8	7.5	5.5

(1) Estimates from the Bureau of the Census

(2) Derived from Mass. Dept. of Public Health's estimates of births & deaths

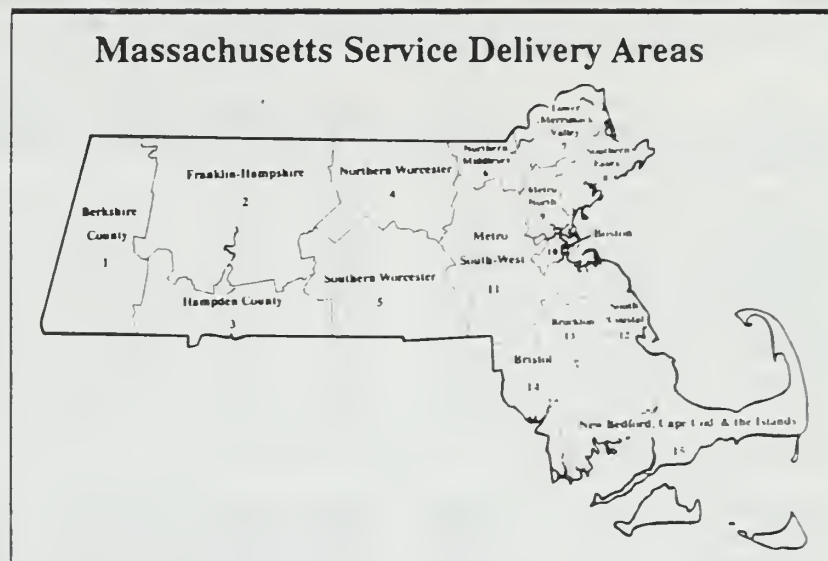
(3) Derived by subtracting total net change from natural increase

between 1980 and 1988; and the net migration, the number of residents that moved in or out of the area.

Statewide Population Growth

Most of the population growth in Massachusetts from 1980 to 1988 has been entirely driven by natural increases as opposed to increases in the number of people moving into the state. From 1970 to 1980 Massachusetts' population expanded less than one percent; from 1980 to 1989, it grew 3 percent, slightly faster than the last 10 years. This growth, however, is still well below the 8.7 percent national average. Several factors explain Massachusetts' slow population growth.

While births have declined throughout the nation, the decline is more pronounced in Massachusetts. From 1960 to 1985, live births in Massachusetts declined 27 percent while nationally, live births declined 12 percent.



Migration out of Massachusetts has been substantial. From 1970 to 1980, 263,000 people left the state. Although the economy improved in the 1980s, Massachusetts still had a net out-migration of 66,800 people between 1980 and 1988.

Population Growth by SDA

Population changes among the SDAs varied. Population increased in 13 SDAs and declined in two. All SDAs had natural population increases, but only 5 SDAs—New Bedford, Cape Cod and the Islands, Northern Worcester,

Metro North	City of Boston	Metro South/West	South Coastal	Brockton	Bristol	New Bedford Cape & Islands	State of Massachusetts
725,993	562,994	797,325	453,042	212,705	304,053	353,041	5,737,096
705,680	577,830	808,700	467,410	216,640	311,600	393,200	5,889,700
15,891	26,362	28,788	15,854	13,766	13,217	5,213	219,454
(36,204)	(11,526)	(17,413)	(1,486)	(9,831)	(5,670)	34,946	(66,794)
(20,313)	14,836	11,375	14,368	3,935	7,547	40,159	152,603
396,940	302,660	464,570	248,250	115,820	159,210	207,470	3,155,000
385,960	292,340	454,110	240,640	111,570	152,370	198,270	3,052,000
10,980	10,330	10,470	7,610	4,250	6,830	9,200	103,000
2.8	3.4	2.3	3.1	3.7	4.3	4.4	3.3
399,080	304,160	466,910	250,080	117,250	162,310	209,190	3,180,000
385,830	292,240	454,010	240,570	111,810	153,590	198,130	3,053,000
13,250	11,920	12,900	9,500	5,440	8,720	11,070	127,000
3.3	3.9	2.8	3.8	4.6	5.4	5.3	4.0
397,070	302,530	462,940	250,000	116,820	162,050	209,250	3,166,000
377,300	285,790	443,990	235,230	108,550	148,350	192,340	2,977,000
19,780	16,740	18,960	14,780	8,270	13,700	16,900	189,000
5.0	5.5	4.1	5.9	7.1	8.5	8.1	6.0

Table 2: Job Growth in Service Delivery Areas by Sector, 1984-1989 (Data based on Number of Jobs in Area)

	Berkshire County	Franklin Hampshire	Hampden County	Northern Worcester	Southern Worcester	Northern Middlesex	Lower Merrimack	Southern Essex
Avg Annual Percent Change								
Total, all Industries	1.7	2.8	1.9	1.7	3.0	1.8	1.8	1.4
Construction	13.0	10.8	8.5	7.8	7.1	5.1	5.3	5.7
Manufacturing	-3.1	-2.3	-2.8	-3.3	-1.0	-2.6	-2.1	-3.6
Communications/Utilities	3.9	2.6	4.2	2.7	3.8	8.2	2.2	4.7
Wholesale Trade	-4.3	8.8	1.7	9.6	5.5	8.8	2.7	3.8
Retail Trade	2.7	4.5	3.0	3.3	3.6	2.1	2.7	1.1
Banks, Ins. & Real Estate	0.3	8.7	3.2	5.1	6.0	5.6	3.5	5.2
Services	4.5	4.5	4.0	5.6	5.3	6.9	5.6	4.8
Government	1.8	1.0	2.2	2.2	2.2	2.0	3.5	2.2
Net Change, 1984-1989								
Total, all Industries	5,000	10,380	18,070	6,510	30,680	8,420	9,980	11,100
Construction	1,770	1,420	2,530	1,030	2,430	840	940	1,520
Manufacturing	(2,480)	(1,670)	(6,550)	(4,130)	(2,650)	(4,850)	(4,750)	(6,700)
Communications/Utilities	320	300	1,640	330	1,630	1,280	420	1,010
Wholesale Trade	(450)	850	740	1,190	3,330	1,450	710	1,370
Retail Trade	1,690	3,300	5,710	2,190	6,880	1,770	2,330	2,170
Banks, Ins. & Real Estate	20	990	2,060	560	3,470	770	790	1,620
Services	3,550	4,150	8,590	3,810	12,560	5,750	6,750	8,150
Government	530	820	3,100	1,300	2,520	1,120	2,470	2,050
Percent Change, 1984-1989								
Total, all Industries	8.6	14.6	9.7	9.0	16.0	9.0	8.8	7.5
Construction	81.6	62.7	46.9	37.0	34.8	24.4	25.9	30.2
Manufacturing	-14.7	-11.0	-13.3	-15.4	-5.0	-12.4	-10.6	-17.0
Communications/Utilities	20.4	13.8	22.6	13.2	20.2	40.5	10.0	25.5
Wholesale Trade	-22.4	51.0	7.7	56.7	30.2	50.8	14.1	20.7
Retail Trade	13.8	24.3	16.1	17.6	19.4	10.9	14.1	5.7
Banks, Ins. & Real Estate	1.0	47.8	16.9	27.3	32.7	28.0	18.5	28.7
Services	24.2	24.3	21.6	30.8	29.3	39.1	31.1	26.3
Government	9.4	5.0	11.7	11.6	11.2	10.5	18.6	11.6

Lower Merrimack Valley, Northern Middlesex, and Franklin-Hampshire--had net in-migration.

Table 1 shows that New Bedford, Cape Cod and the Islands gained the most population over the decade, while Metro North and Berkshire County lost population. There are a number of reasons for population changes. One is that people move out of areas with weak job markets to where the jobs are. In Berkshire County and Metro North, job growth underperformed that of the state. But in New Bedford, Cape Cod and the Islands population growth primarily resulted from 34,946 people moving into the area. The area's economic boom, quality of life, and lower cost of living attracted them

to seek employment or retire. The characteristics of this SDA therefore make economic analysis of the employment growth to population growth relationship more difficult.

A Note on Population Counts

At the time of this writing, 1990 Census data were not available. Some preliminary figures have since become available, showing a faster rate of growth between 1980 and 1990. Differences in the statewide rate of growth from 1980-1988 and 1980-1990, appear to be less than two tenths of a percentage point on an annualized basis. On an SDA basis, differences in the rate of change between the two figures appear to be most significant for only Bristol, Franklin-Hampshire, Metro North,

and Southern Worcester. However, population counts for 1990 are preliminary and are subject to possible correction for undercounts or overcounts. The U.S. Department of Commerce is considering whether to correct these counts and will publish corrected ones if any, no later than July 15, 1991.

Labor Force and Employment

Table 1 also identifies the areas with the largest labor force and the most employment in 1988, 1989, and 1990. Some significant differences exist in the concept of employment. Because interurban commuting outside of many service delivery areas is common, residential and business growth often diverge. The data in table 1 are

Metro North	City of Boston	Metro South-West	South Coastal	Brockton	Bristol	New Bedford Cape & Islands	State of Massachusetts
1.3	0.7	2.0	3.3	3.0	2.1	2.3	1.8
5.7	3.1	5.2	8.1	6.6	11.8	6.4	6.1
-3.6	-7.0	-2.1	-5.4	-3.6	-3.1	-4.8	-3.6
4.7	-2.3	1.5	5.8	3.0	2.4	2.0	1.0
3.9	-4.7	6.4	4.8	10.2	8.5	7.0	3.9
1.1	-1.5	1.8	2.2	4.8	5.0	3.0	2.1
5.2	1.4	4.4	10.9	6.0	4.6	4.4	4.1
4.8	3.0	5.0	6.7	5.1	4.7	5.7	4.4
1.0	2.7	1.0	1.0	0.8	3.8	2.5	2.0
22,560	19,680	46,060	27,780	12,180	13,230	17,200	258,190
3,110	1,670	3,980	3,630	1,150	2,280	1,990	30,430
(26,530)	(14,220)	(14,230)	(6,860)	(2,610)	(7,060)	(6,450)	(112,440)
(1,120)	(4,140)	1,030	1,760	670	420	660	5,680
8,920	(5,630)	10,770	2,120	2,390	2,600	1,540	31,580
4,980	(4,610)	7,030	4,950	4,660	6,270	5,970	55,930
6,950	5,110	4,680	7,960	960	1,110	1,310	38,730
24,380	29,040	29,960	12,490	4,190	4,880	9,310	167,370
1,540	12,370	2,460	900	490	2,580	2,410	36,540
6.5	3.7	10.2	17.7	16.1	11.1	12.1	9.2
23.8	15.6	25.7	43.7	35.2	67.0	31.6	31.6
-32.6)	30.4	-10.3)	-24.6)	-17.0	-14.8)	-21.8)	-16.7)
8.4	-11.1	7.1	31.5	14.8	12.2	10.0	4.8
40.9	-21.8	35.7	26.4	60.6	48.2	39.8	21.0
8.2	-7.3	9.1	11.5	26.5	27.1	15.8	11.1
57.7	6.9	23.8	65.8	33.7	25.0	23.2	22.1
21.3	15.6	27.7	38.2	28.3	26.0	32.0	23.7
5.3	14.2	5.2	4.9	3.8	20.2	12.9	10.4

residentially based, so heavily populated areas usually have the largest labor force and employment. The data in tables 2, 3, and 4 are employer based. These tables represent employment changes in business establishments within an area.

Massachusetts' civilian labor force grew by 10.9 percent or by 313,000 between 1980 and 1989. Women accounted for 80.2 percent of the increase. Hurt by slow population growth, Massachusetts' labor force growth lagged behind the 15.8 percent national average growth rate recorded for the same period. In 1990, however, the Massachusetts labor force declined marginally to 3,166,000, a loss of 14,000 workers from 1989.

Over half of Massachusetts' labor force resided in 5 SDAs and more than a third lived in just three of these SDAs—Metro South-West, Metro North, and the City of Boston.

Metro South-West, the area bounded by Route 128 and Interstate 495, has the largest and most educated labor force in the state. In 1990 it accounted for approximately 15 percent of the state's labor force and employment. Metro North and the City of Boston, the second and third largest SDAs in terms of population and employment, accounted for 12.6 and 9.6 percent of Massachusetts employment, respectively.

South Coastal and Southern Worcester, the fourth and fifth largest SDAs,

each accounted for about 8 percent of Massachusetts' employment. Berkshire County, the state's smallest SDA in terms of population, labor force, and employment had only 2.3 percent of the state's employment.

Unemployment

Table I also shows the distribution of unemployment and the jobless rates among the 15 SDAs. Bristol, New Bedford, Cape Cod and the Islands, and Lower Merrimack Valley, areas with nondiversified economies, had among the highest rates of unemployment in the state in 1988, 1989, and 1990. In 1990, Bristol's and New Bedford, Cape Cod and the Island's jobless rate topped 8.0 percent. Despite problems in its high technology industries, Metro South-

Table 3: Distribution of Jobs in Service Delivery Areas by Industry & Occupation

	Berkshire County	Franklin Hampshire	Hampden County	Northern Worcester	Southern Worcester	Northern Middlesex	Lower Merrimack	Southern Essex
Industrial Distribution								
Total Jobs	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Construction	5.9	4.5	3.9	4.8	4.2	4.2	3.7	4.1
Manufacturing	22.9	16.6	20.8	29.0	22.8	33.8	32.4	20.4
Communications/Utilities	3.0	3.0	4.4	3.5	4.4	4.4	3.7	3.1
Wholesale Trade	2.5	3.1	5.0	4.2	6.5	4.2	4.7	5.0
Retail Trade	22.2	20.7	20.2	18.5	19.0	17.7	15.3	25.2
Banks, Ins. & Real Estate	4.0	3.8	7.0	3.3	6.3	3.4	4.1	4.5
Services	28.9	26.0	23.6	20.4	24.9	20.1	23.0	24.5
Government	9.9	21.2	14.5	15.9	11.3	11.5	12.7	12.3
Occupational Distribution								
Total, all Occupations	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Managerial & Executive	8.8	8.7	7.7	8.6	8.6	9.0	8.0	8.6
Prof. & Technical	19.9	21.8	16.7	14.8	18.9	23.3	20.7	16.6
Marketing & Sales	12.0	10.6	13.7	11.5	12.6	13.1	9.8	14.0
Clerical & Administrative	14.8	15.2	17.3	15.3	18.0	16.8	16.6	16.6
Service	16.9	17.9	15.6	13.3	15.0	12.4	13.9	17.5
Prod, Const Wkrs/Operators	27.7	25.8	29.0	36.5	26.9	25.4	30.9	26.8

West continues to have the lowest unemployment rate in Massachusetts, helped along by a low population growth rate, about half that of the state.

Job Growth

Table 2 details the economic growth within each SDA over the 1984-1989 period. It identifies the average yearly change in industry employment levels among the SDAs, the number of jobs generated or lost by each industry over the 5 year period, and the percent change in industry employment levels between 1984 and 1989.

It is important to note that annual 1990 SDA job data are not available at the time of this writing. However, statewide job losses for 1990 totalled 125,700, the highest ever recorded. This downward trend is expected to continue well into 1991.

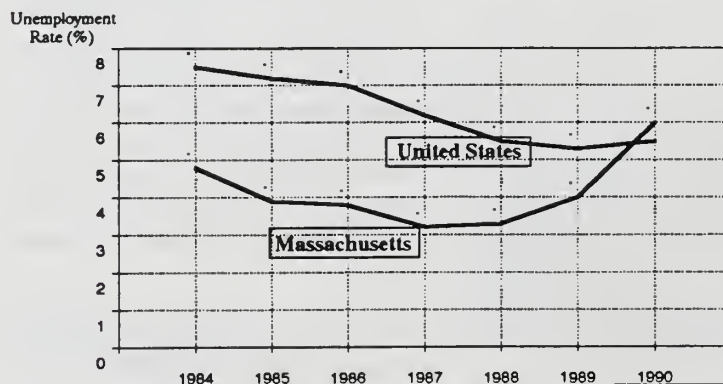
Metro South-West generated over 46,000 jobs, the most of any SDA between 1984 and 1989. South-

ern Worcester generated 30,680 jobs, the second largest number. This is significant because Southern Worcester is only one-half the size of Metro South-West, in terms of total number of jobs. South Coastal, benefiting from the expansion of office employment and its proximity to Boston, generated 22,560 jobs, the third largest number of jobs and the fastest rate of growth at 17.7 percent. In total, these three SDAs accounted for over 38 percent of the

Commonwealth's jobs between 1984 and 1989. Boston, the state's capital and largest SDA, generated 19,675 jobs, less than half the number Metro South-West created. Job growth averaged 0.7 percent per year in Boston, the lowest of Massachusetts' SDAs.

Service industries generated the bulk of the SDAs' jobs over the period. Only in Brockton and Bristol, areas

Chart 2: Unemployment rates decreased between 1984 and 1987 in Massachusetts, while they continued to fall in the US until 1989.



Metro North	City of Boston	Metro South-West	South Coastal	Brockton	Bristol	New Bedford Cape & Islands	State of Massachusetts
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4.4	2.2	3.9	6.4	5.0	4.3	5.2	4.2
14.9	5.9	24.7	11.3	14.4	30.6	14.6	18.3
3.3	6.0	3.1	4.0	5.9	2.9	4.6	4.1
8.3	3.7	8.2	5.5	7.2	6.0	3.4	6.0
17.8	10.7	16.8	26.0	25.3	22.1	27.6	18.4
5.1	14.4	4.9	10.8	4.3	4.2	4.4	7.0
37.5	39.0	27.7	24.4	21.6	17.8	24.2	28.6
8.2	18.0	9.9	10.3	15.4	11.5	13.3	12.8
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
9.4	9.6	9.2	9.0	7.9	7.5	8.8	8.4
21.4	25.9	23.0	16.3	16.1	14.4	15.3	22.2
12.6	9.6	12.7	15.4	13.6	12.6	13.6	11.7
19.9	24.3	18.1	20.0	18.9	15.9	15.7	18.7
14.3	16.9	14.2	16.1	15.4	14.6	19.5	16.0
22.4	13.7	22.8	23.2	28.2	35.5	27.1	23.0

with high concentrations of retail trade industries, did the retail trade sector generate more jobs than service industries.

The mix of service industries within each SDA varies. Boston, Metro South-West, and Metro North have the highest concentrations of high technology service industries in the Commonwealth. In these 3 SDAs, annual service industry wages approximated \$27,000, significantly higher than other SDA's (see table 4). For example, Bristol, Northern Worcester, and Franklin-Hampshire, with smaller concentrations of business service industries, have average annual service industry wages that are only 66 percent of Boston, Metro South-West and Metro North.

The plight of the state's manufacturing sector is also very visible in table 2. Manufacturing employment declined in every SDA over the 1984-1989 period. However, the biggest losses of manufacturing jobs have been in Metro North which lost 26,530 jobs; Metro South-West which

lost 14,230 jobs; and the City of Boston which lost 14,220 jobs.

Job Distribution by Industry and Occupation

Table 3 shows the distribution of jobs by industry sector and occupational group in the state's 15 SDAs. These tables highlight the geographic differences in the structure of each local area's economy and job market. In the city of Boston, for example, fewer than 6 percent of the jobs are in manufacturing industries. In contrast, almost a quarter of the jobs in Metro South-West and over a third of the jobs in Northern Middlesex are in manufacturing.

The mix of industries and the structure of an area's economy directly influences the number and types of jobs found within the SDA. The distribution of jobs in major occupational categories in table 3 illustrates this point. In Berkshire County, for example, approximately 23 percent of the workforce is employed in manufacturing industries, compared to 18

percent statewide. Because an above average number of manufacturing jobs are concentrated in Berkshire County, a greater percentage of the workforce has jobs in production, construction and operating occupations than statewide (28% vs 23%). Similarly, because Berkshire County is not a major banking and insurance center, approximately 15 percent of the SDA's workers have office jobs in clerical occupations, compared to 19 percent statewide.

The distribution of jobs by occupation is based on 1987 data, collected from the Occupational Employment Statistics Survey. Changes in industry structure since 1987 do not significantly affect an area's occupational staffing patterns. Over the long term, however, occupational staffing patterns do change with the advances of technology and supply of new workers.

When reviewing the data in table 3 and tables A, B and C of this report it is important to remember that labor markets for a particular occu-

Table 4: 1989 Average Annual Wages by SDA and Industry

	Berkshire County	Franklin Hampshire	Hampden County	Northern Worcester	Southern Worcester	Northern Middlesex	Lower Merrimack	Southern Essex
Total, all Industries	\$21,736	\$20,253	\$21,683	\$21,486	\$23,002	\$26,241	\$24,017	\$22,964
Construction	25,773	24,628	28,663	25,645	27,444	27,341	28,270	27,525
Manufacturing	31,263	25,813	27,554	27,630	30,368	35,339	29,746	33,533
Communications/Utilities	22,544	25,654	26,317	21,110	28,219	22,459	29,672	25,602
Wholesale Trade	27,853	23,947	26,759	26,563	27,727	31,911	32,433	31,899
Retail Trade	12,158	11,282	12,045	12,015	12,432	13,433	12,554	12,916
Banks, Ins. & Real Estate	25,548	20,241	26,010	21,010	25,847	25,222	22,964	25,008
Services	19,090	18,778	19,635	18,139	19,872	21,959	20,740	19,862

pation may cover areas wider than those defined by the SDAs. Many professional occupations, for example, have national labor markets.

Average Annual Wages

Table 4 lists the average annual wage in each SDA by industry sector. The average industry wage gives a comparative measure of the industry's pay scale. Compiled through the Employment and Wages program, the data approximates an average annual wage for all workers in the

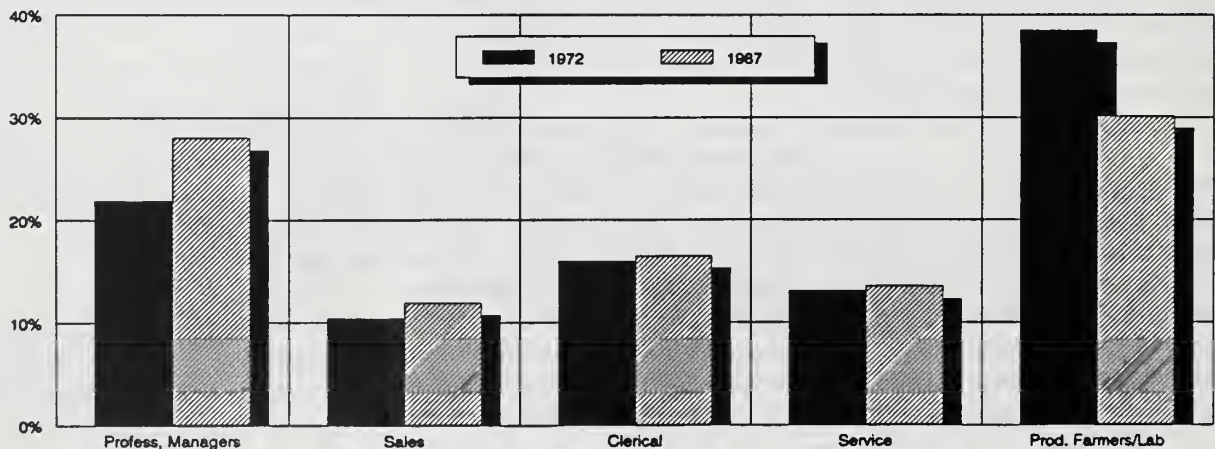
industry. It is computed by dividing the total industry wages by the total number of workers, regardless of part-time or seasonal status.

Given the concentration of banks, law firms, insurance and real estate companies, and high tech industries in Boston, wages here are the highest in the state (\$29,810), followed by Metro South-West (\$28,685), and Metro North (\$26,644). The high concentration of seasonal jobs in New Bedford, Cape Cod and the

Islands contributed to this SDA's reporting the lowest wages in the state (\$19,210).

Wages vary within sectors, depending upon the mix of industries located within the SDA. Given the concentration of computer firms in Metro South-West and Northern Middlesex, for example, the manufacturing wages reported in each of these areas are the highest in the state. In contrast, given the concentration of the low paying apparel

Chart 3: The percentage share of employment in the US is rising the fastest in occupational groups requiring the most education and decreasing in occupations requiring less education



Metro North	City of Boston	Metro South-West	South Coastal	Brockton	Bristol	New Bedford Cape & Islands	State of Massachusetts
\$26,644	\$29,810	\$28,527	\$22,685	\$22,568	\$20,306	\$19,210	\$25,220
31,948	35,439	31,775	30,861	29,601	25,010	24,454	29,554
31,688	31,345	36,854	27,016	24,625	23,443	22,333	30,926
30,025	36,196	29,273	31,008	27,067	27,156	25,486	29,889
34,402	34,227	38,408	30,622	29,729	26,733	23,015	32,779
14,747	15,128	15,683	14,238	14,687	12,151	12,743	13,775
26,747	41,550	27,903	26,185	23,572	19,493	22,079	31,525
27,332	27,678	26,609	20,528	20,162	17,916	18,465	24,010

and needle trade industries in Bristol and New Bedford, manufacturing wages here are the lowest in the state.

The same can be said of service industry wages. The city of Boston and Metro North have the highest paying service industries in the state. The average worker employed in Boston's service industries earned \$27,678 in 1989, the highest in the state. Similarly, due to the concentration of high paying engineering, management and research firms in the service industries in Metro North, the area is the only SDA where the average service wage is higher than the average for all wages (\$27,332 vs. \$26,644).

Education's Importance

With the economy currently restructuring, occupational growth will certainly be affected, since each industry requires a different mix of occupations to produce its goods and services. An analysis of the kinds of jobs generated in the United States between 1972 and 1987 shows that, in general, employment increased the fastest in occupational groups requiring the most education and decreased in occupations requiring less education. In 1972 managerial, executive and administrative occupations were 8.9 percent of all jobs. By 1987, their share increased 2.9 percentage points to 11.8

percent. In contrast, the share of low skilled occupations such as operators, fabricators, and laborers decreased 6 percentage points. In 1972 they were 21.2 percent of all jobs--the largest occupational share--but by 1987 they were only 15.2 percent of all jobs. These trends are expected to continue in the 1990s.

Education and Jobs in Massachusetts

Despite Massachusetts' recent downturn in employment, the educational requirements in the emerging job market will continue to be more heavily geared toward those jobs requiring either college or post secondary training.

The Lower Merrimack Valley Service Delivery Area

Economic Overview

Employment in the Lower Merrimack Valley SDA grew moderately over the mid 1980s as the troubled manufacturing sector, the largest sector of its economy, slowed overall job growth. Fueled by the demand for construction, real estate, and services, the economy grew 2.6 percent per year between 1984 and 1988, slightly faster than the 2.4 percent annual statewide expansion, and generated 12,400 jobs. In 1989, however, the economy declined 2.4 percent, losing 2,990 jobs and job losses were much more pronounced in 1990.

Manufacturing's share of total employment dropped sharply in Lower Merrimack over the 1984-1989 period, falling from 39 percent to 32 percent. Despite this drop, the share of total employment held by manufacturing in the SDA is almost twice as high as the statewide average (32% vs 18%). Within manufacturing, Lower Merrimack's guided missiles and telecommunications equipment industries dominate all other sectors. In 1989 these two industries accounted for more than a third of all manufacturing jobs. Since manufacturing accounts for a third the employment in the Lower Merrimack

Valley economy, its trends are of fundamental importance to the area.

Due to the high concentration of manufacturing in the Lower Merrimack Valley, the largest number of jobs are found in production, construction, assembly, and machining occupations (31%). Professional and technical jobs comprise the second largest number of jobs (20.7%). Because professional and business service establishments are under-represented in the Lower Merrimack service sector, professional and technical workers account for a smaller share of total employment in the SDA than in the state.

Economic Base

Manufacturing accounts for 18.3 percent of the state's jobs but 32 percent of Lower Merrimack's total jobs. It is primarily concentrated in two major high technology industries: guided missiles and telecommunications. In Massachusetts, employment in high tech accounts for 41 percent of all manufacturing jobs and 7.5 percent of total employment. However, in Lower Merrimack these two major industries comprise 62 percent of all high tech manufacturing and 34 percent of all manufacturing.

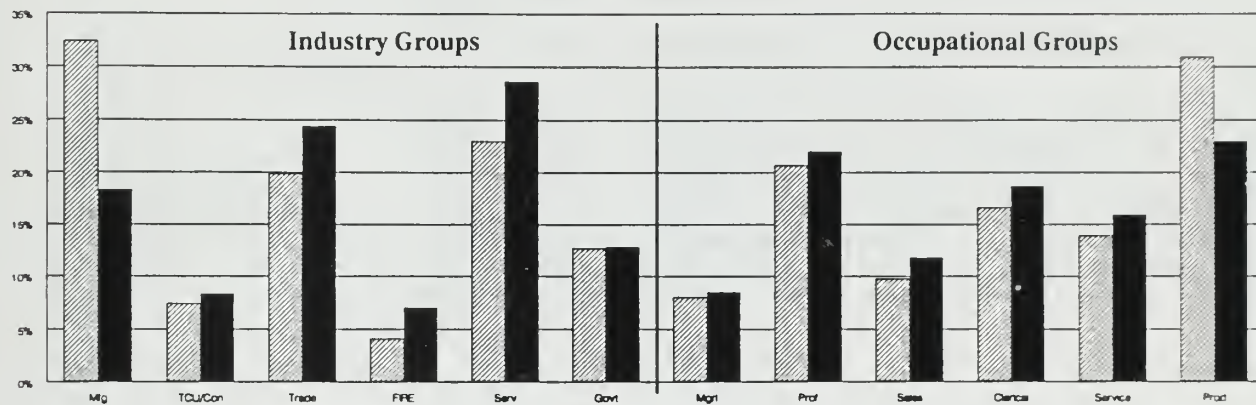
Lower Merrimack lost 4,000 manufacturing jobs between 1984 and 1989, 10.6 percent of its manufacturing base. The state lost 16.7 percent of its manufacturing over the same time period, however since manufacturing plays a far greater role in Lower Merrimack's economy than in the state, its trends

Definition of Area

The Lower Merrimack Valley SDA is situated on the lower half of the Merrimack River in the northeast corner of state. Manufacturing has always been key to the economic livelihood of the three cities and 12 rural towns comprising the region. In the early 1900s the area was one of the largest manufacturers of wool and textiles in the nation. Today, the area is one of the largest producers of communications equipment and guided missiles in the state and New England.

Distribution of Employment by Industry and Occupation

 Lower Merrimack Valley SDA
 State Average

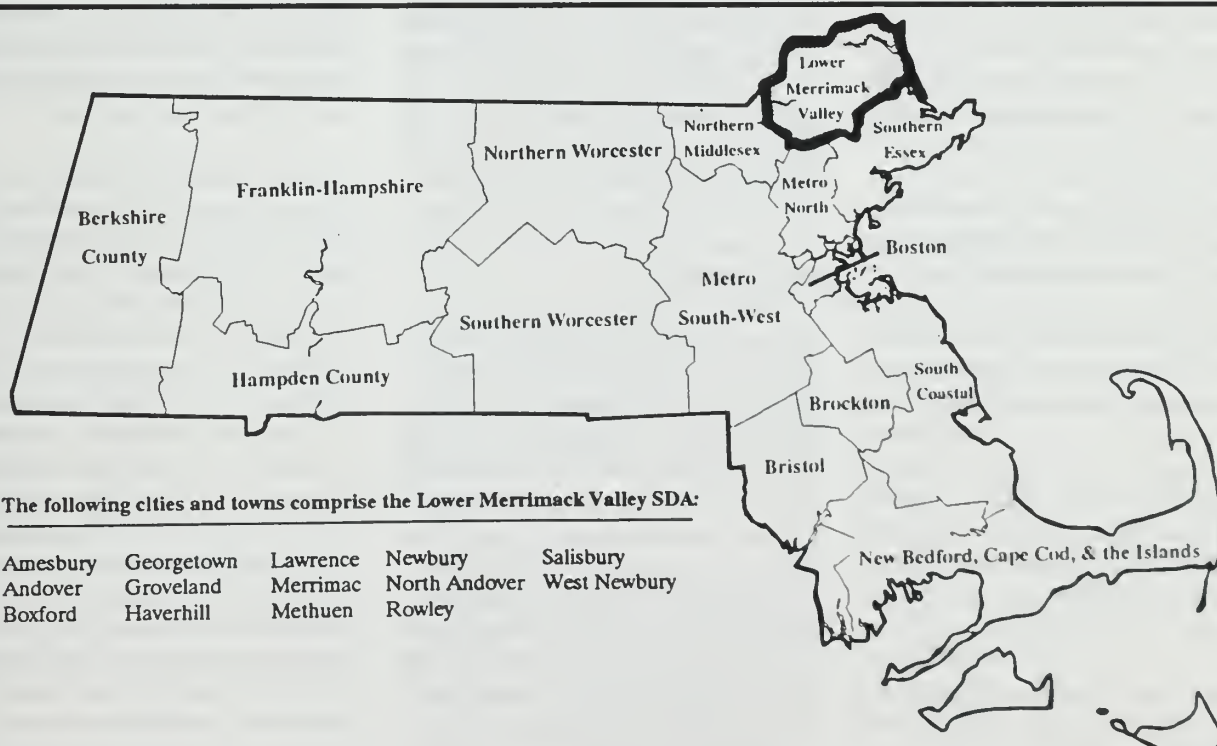


are fundamentally important to the economic performance of the service and retail trade sectors.

Service industries employ the second largest number of workers (28,440) in Lower Merrimack. Although they comprise a smaller percentage share

of total employment in the SDA than in Massachusetts (23% vs 28.6%), Lower Merrimack's service industries are more consumer-oriented than the state's and thus depend to a greater extent on local population and income growth to sustain themselves.

Service industries encompass a wide range of activities such as business, health, education, recreation, and management consulting. Despite this diversity, service industries can still be divided into two categories: services sold for consumer use, and services used by business as part of the produc-



Employment in Major Groups

Percent Distribution

(Note employment levels exclude federal government, private households and agricultural workers)

	Employment	SDA	State Average
Total, all Occupations	118,575	100.0	100.0
Prod/Constr Wkrs/ Operators	36,715	31.0	23.0
Professional & Technical	24,545	20.7	22.0
Clerical & Administrative	19,690	16.6	18.7
Service Occupations	16,455	13.9	15.9
Sales Occupations	11,610	9.8	11.8
Managerial & Executive	9,560	8.0	8.5

tion of goods and services. Establishments providing services in personal care, repair, amusement, health, and education primarily serve the local population and account for 67 percent of Lower Merrimack's service industry employment, compared to 59.7 percent statewide. Business oriented services in advertising, computer and data processing, legal, engineering, consulting, accounting and other professional services account for 33 percent of Lower Merrimack's service sector employment, compared to Massachusetts' 40.3 percent.

Retail trade employs the third largest number of workers (18,950), but it also accounts for a smaller share of total employment in the SDA than in the state (15.3% vs 18.4%). The distribution of retail trade employment is similar to the state as a whole except that general merchandise stores and food stores account for smaller percentages of retail trade employment in Lower Merrimack Valley than in the rest of the state. This accounts for the smaller percentage share of retail trade employment in the SDA.

Construction, wholesale trade, and finance insurance and real estate rep-

resent less than 5 percent each of total employment. Local factors such as population growth and business development account for the smaller percentage share of total employment these industries have in Lower Merrimack Valley than in Massachusetts.

Occupational Composition

Due to the high concentration of manufacturing in the Lower Merrimack Valley, production and construction workers, mechanics repairers and installer, assemblers, helpers and laborers have the most jobs (36,715) or 31.0 percent of all jobs. This percentage share is significantly greater than the 23 percent employment share found in Massachusetts.

The second largest number of jobs in Lower Merrimack Valley is found in professional and technical occupations. These workers comprise approximately 20.7 percent of total employment compared to 22.2 percent statewide. Given the small number of establishments providing business and professional services in this SDA, professional and technical workers comprise a smaller share of total employment here than statewide. Because Lower Merrimack Valley is not a major banking

and retail trade center, approximately 10 and 17 percent of the SDA's workers have sales and clerical jobs, respectively, compared to 12 and 19 percent statewide.

Employment in Major Groups

The following sections summarize employment in occupations with the largest number of jobs within each category. Comparisons made between the state and the SDA identify the major differences in the occupational concentration of employment.

Managerial Occupations

Managers and executives have 9,560 jobs or 8.1 percent of the jobs in the Lower Merrimack Valley. Statewide, managers and executives have about the same percentage share of jobs (8.5%). About 33.6 percent of Lower Merrimack's managers are managers of finance, personnel, purchasing, marketing, engineering, and administrative services. Middle managers in education, health services, construction, manufacturing, real estate, communications, and food service and lodgings comprise another 21 percent. General managers and top executives, however, whose jobs are too diverse and general in nature to classify in any

Top Ten Occupations and Industries with the Largest Employment

Top Ten Occupations

Helpers, Laborers & Movers	6,515
General Managers & Top Executives	3,575
Retail Trade Sales Representatives	3,560
Secretaries	3,025
Cashiers	2,535
General Office Clerks	2,500
Waiters & Waitresses	2,290
Bookkeepers & Accounting Clerks	2,080
Janitors & Cleaners	2,020
Inspectors	1,970

Top Ten Industries

Elementary & Secondary Schools, public & private	7,330
Eating & Drinking Places	6,370
Hospitals, public & private	4,290
Local Govt., exc schools & hospitals	4,010
Nursing & Personal Care Facilities	3,290
Computer & Data Processing Services	2,020
Electronic Components & Accessories	1,920
Offices & Clinics of Medical Doctors	1,570
Misc. Plastics Products, nec	1,550
Medical Instruments & Supplies	1,480

functional or line area of management and administration account for the most employment (37.4%).

Managers are employed in a wide range of establishments from Fortune 500 companies, to colleges and universities, to small nonprofit organizations. Where are Lower Merrimack Valley's managers employed? Approximately 33 percent are employed in manufacturing (compared to 21 percent statewide), 26 percent in service industries, and 19 percent in retail trade.

Professional and Technical Occupations

Professional and technical workers, numbering 24,545, have 20.7 percent of the jobs in Lower Merrimack Valley. Statewide, professional and technical workers have a greater percentage share of jobs (22.2%). Teachers, educators, and instructors account for the largest number of professional and technical jobs (5,960 or 24.4 percent). Elementary and secondary teachers have the most teaching jobs (2,945), followed by college and university teachers (795), teacher aides (510), and special education teachers (480).

Engineers and engineering technicians and technologists have the second larg-

est number of professional and technical jobs, accounting for 5,880 jobs. Electrical and electronic and mechanical engineers have the bulk of the engineering jobs, 30 and 21 percent, respectively, while engineering technicians and technologists comprise another 31 percent of the jobs.

Health practitioners, technicians and technologists account for 20 percent of the professional and technical jobs or the third largest number of jobs. Registered nurses, the largest professional and technical occupation, have 1,865 jobs or 38 percent of the jobs in these health occupations.

Accountants and auditors, purchasing agents and buyers, personnel specialists, and other management support workers accounted for the fourth largest number of jobs (3,830) or 15.6 percent. Accountants and auditors with 680 jobs are the largest jobholders in this category.

Sales Occupations

Sales workers accounted for 10 percent of employment in the Lower Merrimack Valley SDA compared to 11.8 percent statewide. Retail trade representatives and cashiers account for over half the employment in sales occupa-

tions. Because Lower Merrimack is not a major finance and wholesale trade center, travel agents, insurance and real estate agents and brokers, financial sales workers, sales engineers and manufacturing and wholesale trade sales representatives make up a smaller percentage share of Lower Merrimack's sales workforce than in Massachusetts and thus account for Lower Merrimack's smaller than average share of sales jobs.

Clerical Occupations

The 19,690 clerical workers comprise 17 percent of the jobs in Lower Merrimack Valley. Secretaries have the largest number of jobs (3,025), followed by general office clerks (2,500), bookkeepers (2,080), stock clerks (885), traffic, shipping and receiving clerks (700), and production, planning and expediting clerks (640). Employment in these occupations account for 50 percent of all clerical jobs.

Because Lower Merrimack is not a major banking and insurance center, bank tellers, insurance adjusters, examiners, and investigators, bill and account collectors, and other credit workers make up a smaller percentage of clerical employment here than statewide and thus account for a smaller than average share of clerical jobs in

Labor Force, Employment and Unemployment

	Labor Force	Employed	Unemployed	Unemployment Rate	
				SDA	State Average
1983	130,830	120,560	10,270	7.9	6.9
1984	134,340	126,460	7,880	5.9	4.8
1985	136,400	129,990	6,410	4.7	3.9
1986	134,530	127,950	6,580	4.9	3.8
1987	135,570	129,650	5,720	4.2	3.2
1988	137,570	132,040	5,540	4.0	3.3
1989	138,880	131,620	7,260	5.2	4.0
1990	136,640	126,380	10,250	7.5	6.0

the economy overall. Employment in these occupations accounted for 10.6 percent of Lower Merrimack Valley's clerical employment compared to 15.8 percent in Massachusetts.

Service Occupations

Jobs in food service account for 46 percent of the 16,455 jobs in service occupations. Waiters and waitresses, food preparation workers and cooks make up 61 percent of the employment in food service occupations. Health service workers such as nursing aides, orderlies and attendants comprise another 15.5 percent of the employment in service occupations. Janitors and cleaners, maids and housekeepers, police detectives, fire fighters and security guards hold the bulk of the remaining jobs in service occupations.

Production, Construction and Machining Occupations

Production and construction workers, mechanics, machine operators, assemblers, and laborers have the most jobs (36,715), 31 percent of the jobs in the Lower Merrimack Valley. Helpers and laborers hold the largest number of jobs in the group with 8,135 jobs or 22.2 percent. Machine setters, set-up operators, and tenders comprise the

second largest employment category with 6,430 jobs or 17.5 percent. Mechanics, repairers and installers have the third largest number of jobs (4,840). Supervisors and inspectors and assemblers account for another 11 percent each of employment. Electrical and electronic assemblers account for 18 percent of the assembly jobs. Transportation and material moving equipment operators such as truck drivers, operating engineers, and gasoline service station attendants represent another 9.7 percent of the employment. Construction trades workers and precision production workers make up the remaining employment.

Population

Population in the Lower Merrimack Valley SDA expanded steadily throughout the seventies and eighties, increasing 5.2 percent from 247,909 in 1970 to 260,893 in 1980; and 7.0 percent to 279,100 in 1988. Population increased in every city and town except Lawrence, the largest city where the population declined 2 percent.

Most of the population growth in the eighties stemmed from an increase of births over deaths. The natural increase, or the net difference in the number of

births and deaths that occurred in the area over the 1980-1988 period totaled 14,825. The region's comparatively lower housing prices and improved economic situation also helped boost the population by attracting 3,382 people to move into the region during the period.

Labor Force/Unemployment

Growth in the Lower Merrimack Valley's labor force exceeded the population growth rate during the 1980s. Fueled by increases in defense, growth in the computer industry, the aging of the "baby boom generation," and dramatic increases in the percentages of women looking for work, the labor force increased 11.4 percent from 124,640 in 1980 to 138,890 in 1989. In 1990, however, the labor force declined to 136,640 as unemployment rose sharply and discouraged workers left the job market.

Most of the growth in Lower Merrimack's labor force occurred in the early eighties. From 1980 to 1983, 9,695 workers entered or reentered the Lower Merrimack Valley labor market. From 1984 to 1989, 4,550 workers joined the workforce, less than half the number between 1980 and 1983.

President Reagan's defense buildup in the early 1980s brought back many jobs lost during the late 1970s and accounted for the large influx of workers into the labor market between 1980 and 1983. The improved job market tended to draw large numbers of workers into the labor force, boosting the available supply of workers, and at the same time pushing unemployment up to 7.9 percent. (see table)

In 1984, when growth in the number of jobs exceeded the growth in the labor force, unemployment started to fall. It fell each successive year since 1984, reaching a record low of 4.1 percent in 1988. In 1989 job growth leveled off and the unemployment rate increased to 5.2 percent. In 1990, employment fell significantly and the jobless rate rose sharply to 7.1 percent.

Wages/Income

Lower Merrimack Valley has the fifth highest average annual wages of the state's 15 SDAs, trailing the city of Boston, Metro South/West, Metro North, and Northern Middlesex. In 1989,

the average annual wage for all workers covered by unemployment insurance in Lower Merrimack Valley was \$24,017, 95.2 percent of the statewide average (\$25,220).

The lower than average wages of this SDA can be explained by the composition of its service and manufacturing industries. High tech service industries account for a smaller share of total employment in Lower Merrimack Valley than in the state. As a result, service industries wages in Lower Merrimack Valley average \$20,740 compared to \$24,010 in Massachusetts. Similarly, given the number of production facilities in Lower Merrimack's manufacturing sector, its manufacturing wages are also less than the state average (\$29,746 vs \$30,926).

Other income statistics for Lower Merrimack are not geographically comparable to the SDA. However, per capita income for the larger Essex County can be used to approximate the income received by residents.

In 1988, the latest year for which figures are available, Essex County's per capita personal income totaled \$21,385, the fifth highest in the state. Earnings account for 69.9 percent of total personal income in Essex County compared to 70.4 percent in Massachusetts. On the other hand, Essex County residents earn a larger portion of their income from interest, rents and dividend than is typical for the state (17.1% vs 16.3%).

Wage and income statistics provide different types of information about the economic well being of an area. Wage statistics identify the types of jobs that exist in local economies and how well they pay. Per capita personal income, the income received from wages and salaries, self employment, interest, rents, dividends, social security, pensions, alimony and other transfer payments divided by the population, identifies how well off the area's residents as opposed to its workers, because not all workers in a local economy live there.

**Table A:
Lower Merrimack
Employment
by Occupation**

		Employment	Percent Distribution
Managerial Occupations	Total Occupational Employment	118575	100.00
	Managerial And Administrative Occupations	9560	8.04
	Staff And Administrative Specialty Managerial Occupations	3210	2.71
	Financial Managers	950	0.80
	Personnel, Training And Labor Relation Managers	190	0.16
	Purchasing Managers	250	0.21
	Marketing, Advertising And Related Managers	530	0.45
	Administrative Service Managers	545	0.46
	Engineering, Mathematical And Natural Science Managers	745	0.63
	Line And Middle Management Industry Specific Occupations	1980	1.65
	Education Administrators	385	0.32
	Medical And Health Service Managers	225	0.19
	Property And Real Estate Managers And Administrators	85	0.07
	Industrial Production Managers	705	0.59
	Construction Managers	205	0.17
	Communications, Transportation, Utilities Operations Managers	120	0.10
	Food Service And Lodging Managers	255	0.21
	Other Managerial And Administrative Occupations	4370	3.68
	Pub Admin Chief Executives, Legislators, General Administrators	135	0.11
	General Managers And Top Executives	3575	3.01
	All Other Managers And Administrators	660	0.56
Professional & Technical Occupations	Professional, Paraprofessional And Technical Occupations	24545	20.71
	(Management Support Occupations)		
	Accountants, Auditors And Other Financial Specialists	1345	1.13
	Underwriters	65	0.06
	Loan Officers And Counselors	175	0.15
	Accountants And Auditors	680	0.57
	Budget Analysts	75	0.06
	All Other Financial Specialists	350	0.29
	Purchasing Agents And Buyers	500	0.42
	Wholesale And Retail Buyers, Except Farm Products	155	0.13
	Purchasing Agents - Exc Wholesale, Retail & Farm Products	345	0.29
	Personnel, Training, Labor Relations Specialists And Related	280	0.24
	Personnel, Training And Labor Relations Specialists	280	0.24
	Other Management Support Workers	1705	1.45
	Cost Estimators	220	0.19
	Construction And Building Inspectors	65	0.06
	Assessors	125	0.11
	All Other Management Support Workers	1295	1.09
	(Engineers & Engineering Technicians)		
	Engineers	3935	3.32
	Aeronautical And Astronautical Engineers	185	0.16
	Chemical Engineers	60	0.05
	Civil Engineers, Including Traffic Engineers	100	0.08
	Electrical And Electronic Engineers	1815	1.53
	Industrial And Safety Engineers	270	0.23
	Mechanical Engineers	1225	1.03
	All Other Engineers	280	0.24

**Table A:
Lower Merrimack
Employment
by Occupation**

	Employment	Percent Distribution
Architects And Surveying And Mapping Scientists	100	0.08
Architects, Except Landscape And Marine	100	0.08
Engineering And Related Technicians And Technologists	1845	1.56
Electrical, Electronic Engineerng Technicians, Technologists	745	0.63
Industrial Engineering Technicians And Technologists	80	0.07
Mechanical Engineering Technicians And Technologists	205	0.17
Drafters	485	0.41
All Other Engineering Technicians And Technologists	330	0.28
Physical Scientists	185	0.16
Chemists, Except Biochemists	60	0.05
All Other Physical Scientists	125	0.11
Physical And Life Science Technicians And Technologists	100	0.08
Chemical Technicians, Technologists, Exc Health, Engineering	100	0.08
(Computer & Math Scientists)		
Computer Scientists And Related Workers	810	0.68
Systems Analysts, Electronic Data Processing	430	0.36
Computer Programmers	380	0.32
Mathematical Scientists And Related Workers	75	0.06
Operations And Systems Researchers	75	0.06
Social Scientists, Including Urban And Regional Planners	60	0.05
Psychologists	60	0.05
Other Selected Social Science Related Workers	820	0.70
Social Workers, Medical And Non-medical	470	0.40
Social Service Technicians	160	0.14
Recreation Workers	190	0.16
(Lawyers, Paralegals & Related)		
Lawyers And Related Workers	185	0.16
Lawyers	185	0.16
Legal Assistants And Technicians, Except Clerical	80	0.07
Paralegal Personnel	80	0.07
(Teachers Educa- tors, Librarians & Related)		
College And University Faculty	795	0.67
Other Teachers And Instructors	4210	3.54
Teachers, Preschool And Kindergarden	315	0.27
Teachers, Elementary	1755	1.48
Teachers, Secondary School	1190	1.00
Teachers, Special Education	480	0.40
Teachers And Instructors, Vocational Education	135	0.11
Instructors, Nonvocational Education	75	0.06
Instructors And Coaches, Sports	145	0.12
All Other Teachers And Related Workers	115	0.10
Librarians, Archivists, Curators, Other Slected Ed Rel Workrs	955	0.81
Librarians, Professional	175	0.15
Technical Assistants, Library	110	0.09
Vocational And Educational Counselors	160	0.14
Teacher Aides, Paraprofessional	510	0.43

**Table A:
Lower Merrimack
Employment
by Occupation**

	Employment	Percent Distribution
(Health Practitioners, Technicians & Technologists)		
Health Diagnosing And Treating Practitioners	265	0.22
Physicians And Surgeons	165	0.14
Dentists	100	0.08
Therapists	255	0.22
Respiratory Therapists	75	0.06
Physical Therapists	60	0.05
Speech Pathologists And Audiologists	55	0.05
All Other Therapists	65	0.06
Selected Health Care Maintenance And Treating Workers	2885	2.43
Registered Nurses	1865	1.57
Licensed Practical Nurses	685	0.58
Emergency Medical Technicians	195	0.16
Pharmacists	140	0.12
Other Health Professionals, Paraprofessionals And Technicians	1480	1.24
Medical And Clinical Laboratory Technologists And Technicians	230	0.19
Dental Hygienists	145	0.12
Radiologic Technicians	725	0.61
All Other Health Professionals And Others	380	0.32
Selected Writers, Artists, Entertainers, Athletes And Related	565	0.48
Writers And Editors, Including Technical Writers	180	0.15
Reporters And Correspondents	100	0.08
Artists And Related Workers	65	0.06
Interior Designers	220	0.19
Other Professional, Paraprofessional, Technical Occupations	1110	0.94
All Other Professional, Paraprofessional And Technicians	1110	0.94
Marketing & Sales Occupations		
Sales And Related Occupations	11610	9.79
First Line Supervisors And Manager/supervisors	955	0.80
Sales Occupations, Services	755	0.64
Sales Agents And Placers, Insurance	355	0.30
Brokers And Sales Agents, Real Estate	55	0.05
Travel Agents	145	0.12
Sales Agents, Advertising	85	0.07
All Other Sales Representatives, Service	115	0.10
Merchandise, Products, Other Sales, Sales-related Occupations	9900	8.35
Sales Engineers	190	0.16
Sales Reps, Scientific And Related Products And Services	450	0.38
Sales Reps, Exc Scientific And Related Products Or Services	960	0.81
Salespersons, Retail Trade	3560	3.00
Salespersons, Parts	175	0.15
Counter And Rental Clerks	330	0.28
Stock Clerks, Sales Floor	1185	1.00
Cashiers	2535	2.14
All Other Sales And Related Workers	515	0.43
Clerical Occupations		
Clerical And Administrative Support Occupations	19690	16.62
First Line Supervisors - Clerical And Administrative Clerks	1650	1.39

**Table A:
Lower Merrimack
Employment
by Occupation**

	Employment	Percent Distribution
Banking, Security, Finance And Credit Workers	1665	1.41
Tellers	1075	0.91
New Accounts Clerks	190	0.16
Loan And Credit Clerks	155	0.13
Adjustment Clerks	245	0.21
Selected Insurance Workers	255	0.22
Adjusters, Examiners, Investigators	65	0.06
Insurance Claims Clerks	55	0.05
Insurance Policy Processing Clerks	135	0.11
Investigative And Related Workers, Except Insurance	135	0.11
Bill And Account Collectors	135	0.11
Municipal And Related Workers	50	0.04
Municipal Clerks	50	0.04
Selected Lodging And Travel Workers	60	0.05
Hotel Desk Clerks	60	0.05
Other Selected Industry Specific Workers	440	0.37
Library Assistants And Bookmobile Drivers	200	0.17
Teacher Aides And Education Assistants	240	0.20
Secretaries Stenographers And Typists	3495	2.95
Legal Secretaries	185	0.16
Medical Secretaries	285	0.24
Secretaries	3025	2.55
Other Secretarial Related And General Office Workers	7285	6.15
Receptionists And Information Clerks	520	0.44
Typists And Word Processors	535	0.45
Personnel Clerks, Except Payroll And Timekeeping	110	0.09
File Clerks	180	0.15
Order Clerks - Materials, Merchandise And Service	375	0.32
Procurement Clerks	65	0.06
Interview Clerks, Except Personnel And Welfare	160	0.14
Customer Service Representative, Utilities	180	0.15
Bookkeeping, Accounting, Auditing Clerks	2080	1.75
Payroll And Timekeeping Clerks	170	0.14
Billing, Cost And Rate Clerks	410	0.35
General Office Clerk	2500	2.11
Electronic Data Processing, Other Office Machine Occupations	860	0.72
Billing, Posting And Calculating Machine Operators	100	0.08
Computer Operators, Except Peripheral Equipment	290	0.24
Data Entry Keyers, Except Composing	270	0.23
All Other Office Machine Operators	200	0.17
Communications Equipment Operators	385	0.32
Switchboard Operator	265	0.22
Central Office Operators	120	0.10
Material Recording, Scheduling, Dispatching, Distributing	2665	2.26
Dispatchers - Except Police, Fire And Ambulance	65	0.06
Production, Planning, Expediting Clerks	640	0.54
Meter Readers, Utilities	55	0.05
Stock Clerks - Stockroom, Warehouse And Storage Yard	885	0.75
Order Fillers, Wholesale And Retail Sales	115	0.10
Traffic, Shipping And Receiving Clerks	700	0.59
All Other Material Recording And Related Workers	205	0.17
All Other Clerical And Administrative Support Occupations	745	0.63

**Table A:
Lower Merrimack
Employment
by Occupation**

	Employment	Percent Distribution
Service Occupations		
Service Occupations	16455	13.90
First Line Supervisors - Service	505	0.43
Fire Fighting And Prevention Supervisors	55	0.05
All Other Service Supervisors	450	0.38
Protective Service Occupations	1565	1.32
Fire Fighters	280	0.24
Police Detectives And Investigators	240	0.20
Guards And Watch Guards	870	0.73
All Other Protective Services	175	0.15
Food And Beverage Preparation And Service Workers	7630	6.44
Hosts And Hostesses	195	0.16
Bartenders	720	0.61
Waiters And Waitresses	2290	1.93
Dining Room, Counter And Cafe Attendants	530	0.45
Bakers, Bread And Pastry	140	0.12
Butchers And Meat Cutters	140	0.12
Cooks, Restaurant	525	0.44
Cooks, Institution Or Cafe	305	0.26
Cooks, Speciality Fast Food And Fast Food	505	0.43
Food Preparation Workers	1065	0.90
All Other Food Service Workers	1215	1.02
Health Service And Related Occupations	2550	2.16
Dental Assistants	190	0.16
Nurse Aides, Orderlies And Attendants	1845	1.56
Home Health Aides	265	0.22
Pharmacy Assistants	65	0.06
All Other Health Services	185	0.16
Cleaning, Building Service Occupations, Exc Private Househlds	3050	2.57
Janitors And Cleaners, Including Housekeepers And Maids	710	0.60
Janitors And Cleaners	2020	1.70
All Other Cleaning And Building Service Workers	320	0.27
Personal Service Occupations	565	0.48
Cosmetologists And Related	285	0.24
Social Welfare Service Aides	190	0.16
Child Care Workers	90	0.08
All Other Service Occupations	340	0.29
All Other Service Workers	340	0.29
Agricultural, Forestry, Fishing And Related Occupations	250	0.21
Garderners And Groundskeepers, Except Farm	175	0.15
All Other Agricultural, Forestry And Related Workers	75	0.06
Production, Construction & Maintenance Occupations		
Production, Construction And Maintenance Occupations	36715	30.94
First Line Supervisors, Manager/supers - Prod, Constr, Maint	2200	1.84
First Line Supervisors - Mechanics And Repairers	670	0.56
First Line Supervisors - Constuction And Related	255	0.21
First Line Supervisors - Production And Related	1000	0.84
First Line Supervisors - Transportation And Related	85	0.07
First Line Supervisors - Helpers And Others	115	0.10
Blue Collar Worker Supervisors	75	0.06

**Table A:
Lower Merrimack
Employment
by Occupation**

		Employment	Percent Distribution
(Mechanics, Installers & Repairers)	Precision And Production Inspectors	1970	1.66
	Machinery And Related Mechanics, Installers And Repairers	1600	1.35
	Machinery Maintenance Mechanics	200	0.17
	Machinery Maintenance Mechanics, Textile Machines	50	0.04
	All Other Machinery Maintenance Mechanics	75	0.06
	Millwrights	70	0.06
	Machinery Maintenance Wworkers	55	0.05
	Maintenance Repairers, General Utility	1150	0.97
	Mobile Equipment Mechanics, Installers And Repairers	1015	0.85
	Automotive Mechanics	590	0.50
	Automotive Body And Related Repairers	255	0.21
	Bus And Truck Mechanics And Diesel Mechanics	170	0.14
	Communications Equipment Mechanics, Installers And Repairers	170	0.14
	Central Office And Pbx Installers And Repairers	170	0.14
	Other Electrical, Electronic Equip Mechs, Installers, Repairs	795	0.68
	Telephone And Cable Tv Line Installers And Repairers	90	0.08
	Data Processing Equipment Repairers	60	0.05
	Electronics Repairers, Industrial Equipment	65	0.06
	Electric Powerline Installers And Repairers	225	0.19
	Station Installers And Repairers, Telephone	235	0.20
	All Other Electric, Electronic Equip Mechs, Reprers, Instllrs	120	0.10
	Other Mechanics, Installers And Repairers	1255	1.06
	Heating, Air Conditioning, Refrigeration Mechs, Installers	260	0.22
	Gas Appliance Repairers	50	0.04
	All Other Mechanics, Installers And Repairers	945	0.80
(Construction Trades Occupations)	Selected Carpentry And Related Workers	860	0.72
	Carpenters	670	0.56
	Drywall Installers And Tapers	190	0.16
	Selected Electrical And Related Workers	455	0.38
	Electricians	455	0.38
	Selected Masonry And Related Workers	255	0.23
	Brick Masons And Stone Masons	125	0.11
	Concrete And Terrazzo Finishers	65	0.06
	Reinforcing Metal Workers	65	0.06
	Selected Painting And Related Workers	250	0.21
	Painters, Paperhangers, Construction And Maintenance	250	0.21
	Selected Plumbing And Related Workers	380	0.32
	Plumbers, Pipefitters And Steamfitters	380	0.32
	Selected Road, Rail, Related Constr & Maint Wrkrs, Exc Masons	140	0.12
	Highway Maintenance Workers	140	0.12
	All Other Construction Trades Workers	170	0.14
	Sheet Metal Duct Installers	60	0.05
	Glaziers	110	0.09
	Extractive And Related, Including Blasters	300	0.25
	All Other Construction And Extractive Occupations	300	0.25

**Table A:
Lower Merrimack
Employment
by Occupation**

		Employment	Percent Distribution
(Precision Production Occupations)	Precision Metal Workers	1495	1.25
	Tool And Die Makers	205	0.17
	Machinists	860	0.72
	Sheet Metal Workers	290	0.24
	All Other Precision Metal Workers	140	0.12
	Precision Woodworkers	260	0.22
	Wood Machinists	60	0.05
	Cabinetmakers And Bench Carpenters	105	0.09
	All Other Precision Woodworkers	95	0.08
	Precision Textile, Apparel And Furnishings Workers	375	0.31
	Custom Tailors And Sewers	70	0.06
	Shoe And Leather Workers And Repairers - Precision	230	0.19
	All Other Precision Textile And Related Workers	75	0.06
	Precision Printing Workers	115	0.10
	All Other Precision Printing Workers	115	0.10
	Precision Food Workers	50	0.04
	Bakers, Manufacturing	50	0.04
	Other Precision Workers	190	0.16
	All Other Precision Workers	190	0.16
(Machine Setters, Set-up Operators, Operators, & Tenders)	Machine Tool Cutting Setters, Ops And Related - Metal, Plas	430	0.36
	Lathe, Turning Mach Tool Setters, Set-up Operators, Metal, Pl	110	0.09
	Drilling, Boring Mach Tool Setters, Set-up Ops, Metal, Pl	80	0.07
	Grinding, Lapping, Buffing Machine Tool Setters, Set-up Ops	95	0.08
	Machine Tool Cutting Operators	145	0.12
	Machine Forming Setters, Operators And Related Workers	610	0.52
	Punching Machine Setters And Set-up Operators, Metal, Plastic	90	0.08
	Press, Press Brake Machine Setters, Set-up Ops, Metal, Plas	80	0.07
	Extruding, Drawing Machine Setters, Set-up Ops, Metal And Pla	110	0.09
	Sheetmetal Machine Operator	330	0.28
	Numerical And Combination Tool Setters, Operators And Related	205	0.18
	Numerical Control Machine Tool Operators, Tenders, Met, Plas	140	0.12
	Combination Machine Tool Setters, Set-up Ops, Metal, Plastic	65	0.06
	Metal Fabricating, Related Machine Setters, Operators	175	0.14
	Welding Machine Operators And Tenders	75	0.06
	Metal Fabricators, Structural Metal Products	100	0.08
	Metal, Plastic Processing Machine Setters, Operators, Related	335	0.28
	Plastic Molding, Casting Machine Operators And Tenders	170	0.14
	Electrolytic Plating, Coating Machine Setters, Set-up Ops	100	0.08
	Electrolytic Plating And Coating Machine Operators, Tenders	65	0.06
	All Other Metal, Plastic Machine Setters, Operators, Related	590	0.49
	All Other Metal, Plastic Machine Setters, Set-up Operators	240	0.20
	All Other Metal And Plastic Machine Operators And Tenders	350	0.29
	Woodworking Machine Setters, Operators, Other Related Workers	120	0.10
	Woodworking Machine Operators And Tenders, Except Sawing	120	0.10
	Printing, Binding And Related Workers	265	0.22
	All Other Printing Related Setters And Set-up Operators	70	0.06

**Table A:
Lower Merrimack
Employment
by Occupation**

	Employment	Percent Distribution
Printing Press Machine Operators	135	0.11
All Other Printing, Binding, Related Machine Ops And Tenders	60	0.05
Textile, Related Setters, Operators And Other Related Workers	1600	1.35
Textile Machine Ops, Tenders - Winding, Twisting, Knitting	145	0.12
Extruding, Forming Machine Ops, Tenders, Synthetic Or Glass	65	0.06
Textile Draw-out Machine Operators And Tenders	165	0.14
Textile Bleaching And Dyeing Machine Operators And Tenders	85	0.07
Sewing Machine Operators, Garment	620	0.52
Sewing Machine Operators, Non-garment	85	0.07
Shoe Sewing Machine Operators	90	0.08
Laundry And Drycleaning Machine Operators	235	0.20
Pressing Machine Operators, Textile	110	0.09
Other Machine Setters, Set-up Operators, Operators, Tenders	2100	1.79
Paper Goods Machine Setters And Set-up Operators	120	0.10
Furnace, Kiln, Oven, Drier Or Kettle Operators And Tenders	55	0.05
Cutting And Slicing Machine Setters And Set-up Operators	65	0.06
Cutting And Slicing Machine Operators	80	0.07
Coating, Painting, Spraying Machine Setters, Set-up Operators	95	0.08
Coating, Painting And Spraying Machine Operators And Tenders	115	0.10
Crushing, Grinding, Mixing, Blending Machine Ops And Tenders	165	0.14
Packaging And Filling Machine Operators	315	0.27
All Other Machine Operators	1090	0.92
(Assemblers & other Hand Workers)		
Precision Assemblers	1080	0.91
Machine Builders And Other Precision Machine	175	0.15
Electromechanical Equipment Assemblers - Prec	490	0.41
Electrical And Electronic Equipment Assembler	415	0.35
Other Hand Workers, Including Assemblers And Fabricators	3035	2.57
Electrical And Electronic Assemblers	755	0.64
Welders And Cutters	130	0.11
Hand Sewers	90	0.08
Cutters And Trimmers, Hand	165	0.14
Grinding And Polishing Workers, Hand	80	0.07
Assemblers, Fabricators - Exc Mach, Electrl, Electrn, Prec	1220	1.03
All Other Hand Workers	595	0.50
Plant And Systems Occupations	190	0.16
Water And Liquid Waste Treatment Plant And System Operators	70	0.06
All Other Plant And System Operators	120	0.10
(Transportation & Material Moving Machine & Vehicle Operators)		
Motor Vehicle Operators	2475	2.08
Truck Drivers, Heavy	870	0.73
Truck Drivers, Light - Including Delivery And Route Drivers	785	0.66
Bus Drivers	135	0.11
Bus Drivers, School	390	0.33
Taxi Drivers And Chauffeurs	80	0.07
Driver/sales Workers	215	0.18
All Other Transportation And Related Workers	470	0.40
Service Station Attendants	365	0.31
All Other Transportation Workers	105	0.09
Material Moving Equipment Operators	605	0.51
Excavating And Loading Machine Operators	70	0.06
Industrial Truck And Tractor Operators	240	0.20
Operating Engineers	155	0.13
All Other Material Moving Equipment Operators	140	0.12

**Table A:
Lower Merrimack
Employment
by Occupation**

	Employment	Percent Distribution
(Helpers, Laborers & Material Movers- Hand)		
Constructive Trades, Extractive Worker Helpers	620	0.52
Helpers, All Other Construction Trades	620	0.52
Machine Feeders And Offbearers	180	0.15
Machine Feeders And Offbearers	180	0.15
All Other Helpers, Laborers, Material Movers - Hand	7330	6.18
Hand Packers And Packagers	685	0.58
Vehicle Washers And Equipment Cleaners	105	0.09
All Other Helpers, Laborers, Movers - Hand	6540	5.51

**Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry**

**Managerial &
Executive Occupations**

	Employment	Percent Distribution
o Financial Managers	950	100.00
Durable Goods Manufacturing	205	21.58
All Other Service	180	18.95
All Other Finance, Insurance And Real Estate	145	15.26
Commercial And Stock Savings Banks	115	12.11
All Other Business Services	75	7.89
Construction	70	7.37
Local Government, Except Education And Hospitals	70	7.37
Nondurable Goods Manufacturing	65	6.84
o Purchasing Managers	250	100.00
Wholesale And Retail Trade	125	50.00
Durable Goods Manufacturing	90	36.00
o Marketing, Advertising And Related Managers	530	100.00
All Other Durable Goods Manufacturing	100	18.87
Wholesale And Retail Trade	85	16.04
All Other Machinery, Except Electrical	65	12.26
All Other Business Services	65	12.26
All Other Service	65	12.26
Nondurable Goods Manufacturing	60	11.32
All Other Electrical And Electronic Equipment	55	10.38
o Administrative Service Managers	545	100.00
Local Government, Except Education And Hospitals	370	67.89
Service	85	15.60
Durable Goods Manufacturing	55	10.09
o Engineering, Mathematical And Natural Science Managers	745	100.00
Communication Equipment	295	39.60
All Other Durable Goods Manufacturing	130	17.45
All Other Business Services	125	16.78
Office Computing Machinery	70	9.40
All Other Electrical And Electronic Equipment	55	7.38
o Education Administrators	385	100.00
Elementary And Secodary Schools	280	72.73
All Other Educational Services	75	19.48
o Medical And Health Service Managers	225	100.00
Hospitals	95	42.22
All Other Health Services	85	37.78
o Industrial Production Managers	705	100.00
All Other Durable Goods Manufacturing	340	48.23
Nondurable Goods Manufacturing	155	21.98
All Other Machinery, Except Electrical	75	10.64

**Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry**

		Employment	Percent Distribution
Professional & Technical Occupations	o General Managers And Top Executives	3575	100.00
	Eating And Drinking Places	265	7.41
	All Other Nondurable Goods Manufacturing	260	7.27
	All Other Wholesale And Retail Trade	245	6.85
	Misc. Retail Stores	225	6.29
	All Other Finance, Insurance And Real Estate	210	5.87
	Membership Organizations	195	5.45
	Wholesale Trade-durable Goods	160	4.48
	All Other Service	150	4.19
	Special Trade Constructors	145	4.05
	All Other Durable Goods Manufacturing	145	4.05
	All Other Machinery, Except Electrical	140	3.91
	Apparel And Accessory Stores	120	3.36
	Social Services	120	3.36
	All Other Wholesale Trade-nondurable Goods	115	3.22
	All Other Health Services	115	3.22
	All Other Business Services	110	3.08
	All Other Construction	95	2.66
	Miscellaneous Business Services	90	2.52
	All Other Electrical And Electronic Equipment	85	2.38
	All Other Educational Services	80	2.24
	Food Stores	75	2.10
	Commercial And Stock Savings Banks	70	1.96
	Printing And Publishing	65	1.82
	Fabricated Metal Products	60	1.68
	Transportation And Public Utilities	60	1.68
	Department Stores	60	1.68
	Personal Services	55	1.54
	Motor Vehicle Dealers (new And Used)	50	1.40
Professional & Technical Occupations	o Accountants And Auditors	680	100.00
	Service	220	32.35
	All Other Durable Goods Manufacturing	115	16.91
	Wholesale And Retail Trade	115	16.91
	All Other Electrical And Electronic Equipment	65	9.56
	Nondurable Goods Manufacturing	55	8.09
	o Purchasing Agents - Exc Wholesale, Retail & Farm Products	345	100.00
	All Other Durable Goods Manufacturing	235	68.12
	All Other Machinery, Except Electrical	50	14.49
	o Personnel, Training And Labor Relations Specialists	280	100.00
	All Other Durable Goods Manufacturing	90	32.14
	All Other Electrical And Electronic Equipment	60	21.43
	Membership Organizations	55	19.64
	All Other Service	55	19.64
	o Electrical And Electronic Engineers	1815	100.00
	Communication Equipment	570	31.41
	All Other Durable Goods Manufacturing	540	29.75
	Instruments And Related Products	180	9.92
	Office Computing Machinery	160	8.82
	All Other Business Services	120	6.61

**Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry**

	Employment	Percent Distribution
All Other Electrical And Electronic Equipment	95	5.23
Electronic Components And Accessories	55	3.03
Wholesale Trade-durable Goods	55	3.03
o Industrial And Safety Engineers	270	100.00
All Other Durable Goods Manufacturing	105	38.89
Office Computing Machinery	70	25.93
All Other Electrical And Electronic Equipment	65	24.07
o Mechanical Engineers	1225	100.00
All Other Durable Goods Manufacturing	1030	84.08
All Other Machinery, Except Electrical	75	6.12
Communication Equipment	55	4.49
o Electrical, Electronic Engineering Technicians, Technologists	745	100.00
Office Computing Machinery	165	22.15
Instruments And Related Products	130	17.45
All Other Electrical And Electronic Equipment	120	16.11
Communication Equipment	95	12.75
All Other Durable Goods Manufacturing	90	12.07
Wholesale Trade-durable Goods	75	10.07
o Drafters	485	100.00
All Other Durable Goods Manufacturing	175	36.09
Communication Equipment	105	21.65
Service	105	21.65
All Other Electrical And Electronic Equipment	55	11.34
o Systems Analysts, Electronic Data Processing	430	100.00
All Other Durable Goods Manufacturing	140	32.56
Communication Equipment	100	23.26
All Other Business Services	55	12.79
All Other Machinery, Except Electrical	50	11.63
o Computer Programmers	380	100.00
Durable Goods Manufacturing	155	40.79
All Other Business Services	105	27.63
o Social Workers, Medical And Non-medical	470	100.00
Social Services	300	63.83
All Other Health Services	160	34.04
o College And University Faculty	795	100.00
Elementary And Secondary Schools	355	44.65
All Other Educational Services	285	35.85
Personal Services	130	16.35
o Teachers, Preschool And Kindergarten	315	100.00
Social Services	180	57.14
Elementary And Secondary Schools	135	42.86
o Teachers, Elementary	1755	100.00
Elementary And Secondary Schools	1740	99.15

**Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry**

		Employment	Percent Distribution
	o Teachers, Secondary School	1190	100.00
	Elementary And Secondary Schools	1190	100.00
	o Teachers, Special Education	480	100.00
	Elementary And Secondary Schools	480	100.00
	o Teacher Aides, Paraprofessional	510	100.00
	Elementary And Secondary Schools	510	100.00
	o Registered Nurses	1865	100.00
	Hospitals	1215	65.15
	Nursing And Personal Care Facilities	230	12.33
	All Other Health Services	145	7.77
	Office Of Physicians	85	4.56
	Social Services	70	3.75
	All Other Service	60	3.22
	Elementary And Secodary Schools	55	2.95
	o Licensed Practical Nurses	685	100.00
	Hospitals	335	48.90
	Nursing And Personal Care Facilities	235	34.31
	All Other Service	60	8.76
	All Other Health Services	55	8.03
	o Medical And Clinical Laboratory Technologists And Technician	230	100.00
	Hospitals	165	71.74
	All Other Health Services	65	28.26
	o Radiologic Technicians	725	100.00
	Office Of Physicians	600	82.76
	Hospitals	115	15.86
Marketing & Sales Occupations	o Sales Supervisors	955	100.00
	Food Stores	165	17.28
	Nondurable Goods Manufacturing	105	10.99
	Finance, Insurance And Real Estate	105	10.99
	Durable Goods Manufacturing	100	10.47
	All Other Wholesale And Retail Trade	100	10.47
	Apparel And Accessory Stores	75	7.85
	Misc. Retail Stores	70	7.33
	Wholesale Trade-durable Goods	65	6.81
	All Other Business Services	65	6.81
	Groceries And Related Supplies	55	5.76
	All Other Service	50	5.24
	o Sales Agents And Placers, Insurance	355	100.00
	Finance, Insurance And Real Estate	355	100.00
	Wholesale Trade-durable Goods	70	36.84

**Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry**

		Employment	Percent Distribution
	o Sales Reps, Scientific And Related Products And Services	450	100.00
	Wholesale Trade-durable Goods	165	36.67
	All Other Durable Goods Manufacturing	85	18.89
	All Other Electrical And Electronic Equipment	60	13.33
	Service	55	12.22
	All Other Wholesale Trade-nondurable Goods	50	11.11
	o Sales Reps, Exc Scientific And Related Products Or Services	960	100.00
	Wholesale Trade-durable Goods	215	22.40
	Groceries And Related Supplies	155	16.15
	All Other Wholesale Trade-nondurable Goods	155	16.15
	All Other Nondurable Goods Manufacturing	140	14.58
	Durable Goods Manufacturing	135	14.06
	Miscellaneous Plastics Products	55	5.73
	Service	50	5.21
	o Retail Trade Sales Representatives	3560	100.00
	All Other Wholesale And Retail Trade	925	25.98
	Apparel And Accessory Stores	755	21.21
	Misc. Retail Stores	720	20.22
	Department Stores	630	17.70
	Motor Vehicle Dealers (new And Used)	230	6.46
	Food Stores	110	3.09
	Wholesale Trade-durable Goods	80	2.25
	All Other Wholesale Trade-nondurable Goods	65	1.83
	o Stock Clerks, Sales Floor	1185	100.00
	Food Stores	605	51.05
	Misc. Retail Stores	225	18.99
	All Other Wholesale And Retail Trade	195	16.46
	Department Stores	80	6.75
	Apparel And Accessory Stores	80	6.75
	o Cashiers	2535	100.00
	Food Stores	805	31.76
	Eating And Drinking Places	450	17.75
	Misc. Retail Stores	380	14.99
	All Other Automotive Dealers & Service Stations	245	9.66
	Department Stores	185	7.30
	All Other Wholesale And Retail Trade	125	4.93
	All Other Service	120	4.73
	Personal Services	85	3.35
	Apparel And Accessory Stores	70	2.76
Clerical & Administrative Support Occupations	o First Line Supervisors - Clerical And Administrative Clerks	1650	100.00
	Transportation And Public Utilities	460	27.88
	All Other Wholesale And Retail Trade	150	9.09
	Nondurable Goods Manufacturing	125	7.58
	All Other Durable Goods Manufacturing	110	6.67
	All Other Health Services	110	6.67
	All Other Service	105	6.36
	All Other Finance, Insurance And Real Estate	100	6.06
	Mutual Savings Banks	75	4.54
	Miscellaneous Business Services	75	4.54
	All Other Machinery, Except Electrical	65	3.94

**Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry**

		Employment	Percent Distribution
	Wholesale Trade-durable Goods	65	3.94
	All Other Automotive Dealers & Service Stations	60	3.64
	Commercial And Stock Savings Banks	60	3.64
	All Other Wholesale Trade-nondurable Goods	50	3.03
o	Tellers	1075	100.00
	Mutual Savings Banks	570	53.02
	Commercial And Stock Savings Banks	435	40.47
	All Other Finance, Insurance And Real Estate	70	6.51
o	Secretaries	3025	100.00
	All Other Durable Goods Manufacturing	520	17.20
	Elementary And Secodary Schools	230	7.60
	All Other Service	190	6.28
	All Other Finance, Insurance And Real Estate	185	6.12
	Nondurable Goods Manufacturing	170	5.62
	Local Government, Except Education And Hospitals	155	5.12
	All Other Business Services	135	4.46
	All Other Educational Services	130	4.30
	Communication Equipment	115	3.80
	Wholesale Trade-durable Goods	115	3.80
	Special Trade Constructors	105	3.47
	Office Computing Machinery	95	3.14
	Miscellaneous Business Services	95	3.14
	Social Services	95	3.14
	Membership Organizations	95	3.14
	All Other Electrical And Electronic Equipment	85	2.81
	All Other Wholesale And Retail Trade	85	2.81
	Transportation And Public Utilities	75	2.48
	All Other Wholesale Trade-nondurable Goods	75	2.48
	Hospitals	70	2.31
	All Other Health Services	70	2.31
	All Other Construction	65	2.15
	All Other Banking	65	2.15
o	Receptionists And Information Clerks	520	100.00
	All Other Service	170	32.69
	All Other Health Services	115	22.12
	Hospitals	65	12.50
	Finance, Insurance And Real Estate	55	10.58
o	Order Clerks - Materials, Merchandise And Service	375	100.00
	Durable Goods Manufacturing	95	25.34
	Wholesale Trade-durable Goods	90	24.00
	All Other Wholesale And Retail Trade	60	16.00
	Nondurable Goods Manufacturing	50	13.33
	All Other Wholesale Trade-nondurable Goods	50	13.33
o	Bookkeeping, Accounting, Auditing Clerks	2080	100.00
	All Other Wholesale And Retail Trade	165	7.93
	Nondurable Goods Manufacturing	155	7.45
	All Other Service	155	7.45
	All Other Durable Goods Manufacturing	135	6.49
	Special Trade Constructors	115	5.53
	Wholesale Trade-durable Goods	115	5.53
	Local Government, Except Education And Hospitals	115	5.53

**Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry**

	Employment	Percent Distribution
Transportation And Public Utilities	105	5.05
Misc. Retail Stores	100	4.81
All Other Finance, Insurance And Real Estate	100	4.81
All Other Health Services	90	4.33
All Other Wholesale Trade-nondurable Goods	85	4.09
All Other Automotive Dealers & Service Stations	75	3.61
Communication Equipment	70	3.37
All Other Business Services	70	3.37
All Other Educational Services	70	3.37
All Other Electrical And Electronic Equipment	65	3.12
All Other Banking	65	3.12
All Other Construction	60	2.88
All Other Machinery, Except Electrical	60	2.88
Eating And Drinking Places	55	2.64
Social Services	55	2.64
o Billing, Cost And Rate Clerks	410	100.00
All Other Service	120	29.27
Wholesale And Retail Trade	115	28.05
Durable Goods Manufacturing	55	13.41
Hospitals	50	12.19
o General Office Clerk	2500	100.00
Transportation And Public Utilities	335	13.40
Nondurable Goods Manufacturing	210	8.40
Local Government, Except Education And Hospitals	200	8.00
All Other Wholesale And Retail Trade	195	7.80
All Other Durable Goods Manufacturing	180	7.20
All Other Service	175	7.00
Hospitals	165	6.60
All Other Finance, Insurance And Real Estate	160	6.40
Wholesale Trade-durable Goods	105	4.20
All Other Wholesale Trade-nondurable Goods	95	3.80
All Other Health Services	90	3.60
Elementary And Secodary Schools	80	3.20
Misc. Retail Stores	75	3.00
Special Trade Constructors	65	2.60
All Other Electrical And Electronic Equipment	65	2.60
Motor Vehicle Dealers (new And Used)	65	2.60
All Other Business Services	55	2.20
Fabricated Metal Products	50	2.00
Food Stores	50	2.00
All Other Banking	50	2.00
o Computer Operators, Except Peripheral Equipment	290	100.00
Durable Goods Manufacturing	100	34.48
State And Local Government	65	22.41
Wholesale And Retail Trade	60	20.69
o Production, Planning, Expediting Clerks	640	100.00
All Other Durable Goods Manufacturing	235	36.72
Communication Equipment	155	24.22
Transportation And Public Utilities	90	14.06
Office Computing Machinery	85	13.28
Nondurable Goods Manufacturing	75	11.72

**Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry**

		Employment	Percent Distribution
	o Stock Clerks - Stockroom, Warehouse And Storage Yard	885	100.00
	All Other Wholesale And Retail Trade	230	25.99
	All Other Durable Goods Manufacturing	145	16.38
	Service	80	9.04
	Food Stores	75	8.47
	Office Computing Machinery	65	7.35
	Nondurable Goods Manufacturing	65	7.35
	Wholesale Trade-durable Goods	65	7.35
	Communication Equipment	60	6.78
	All Other Electrical And Electronic Equipment	60	6.78
	o Traffic, Shipping And Receiving Clerks	700	100.00
	Nondurable Goods Manufacturing	180	25.72
	All Other Durable Goods Manufacturing	115	16.43
	All Other Wholesale And Retail Trade	85	12.14
	All Other Wholesale Trade-nondurable Goods	80	11.43
	All Other Machinery, Except Electrical	70	10.00
	Wholesale Trade-durable Goods	70	10.00
	All Other Electrical And Electronic Equipment	65	9.29
Service Occupations			
	o Guards And Watch Guards	870	100.00
	Miscellaneous Business Services	380	43.68
	Durable Goods Manufacturing	125	14.37
	All Other Service	120	13.79
	All Other Educational Services	80	9.19
	Wholesale And Retail Trade	65	7.47
	Hospitals	50	5.75
	o Bartenders	720	100.00
	Eating And Drinking Places	395	54.86
	Membership Organizations	250	34.72
	o Waiters And Waitresses	2290	100.00
	Eating And Drinking Places	1790	78.17
	All Other Service	235	10.26
	Hospitals	140	6.11
	Membership Organizations	80	3.49
	o Dining Room, Counter And Cafe Attendants	530	100.00
	Eating And Drinking Places	375	70.75
	Service	85	16.04
	All Other Wholesale And Retail Trade	70	13.21
	o Cooks, Restaurant	525	100.00
	Eating And Drinking Places	440	83.81
	Service	85	16.19
	o Cooks, Institution Or Cafe	305	100.00
	Elementary And Secodary Schools	135	44.26
	All Other Service	75	24.59
	Nursing And Personal Care Facilities	65	21.31

**Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry**

		Employment	Percent Distribution
Prod., Construction & Machining Occupations	o Cooks, Speciality Fast Food And Fast Food	505	100.00
	Eating And Drinking Places	465	92.08
	o Food Preparation Workers	1065	100.00
	Eating And Drinking Places	390	36.62
	Nursing And Personal Care Facilities	255	23.95
	Elementary And Secodary Schools	185	17.37
	All Other Service	115	10.80
	Hospitals	60	5.63
	All Other Wholesale And Retail Trade	55	5.16
	o Nurse Aides, Orderlies And Attendants	1845	100.00
	Nursing And Personal Care Facilities	1200	65.04
	Hospitals	320	17.35
	All Other Health Services	160	8.67
	All Other Business Services	110	5.96
	All Other Service	55	2.98
	o Janitors And Cleaners	2020	100.00
	Services To Dwellings And Other Buildings	620	30.69
	Elementary And Secodary Schools	400	19.80
	Wholesale And Retail Trade	220	10.89
	All Other Durable Goods Manufacturing	165	8.17
	All Other Service	165	8.17
	Nondurable Goods Manufacturing	135	6.68
	Nursing And Personal Care Facilities	110	5.45
	Finance, Insurance And Real Estate	80	3.96
	Hospitals	65	3.22
	All Other Electrical And Electronic Equipment	55	2.72
	o First Line Supervisors - Mechanics And Repairers	670	100.00
	All Other Wholesale And Retail Trade	95	14.18
	Motor Vehicle Dealers (new And Used)	85	12.69
	All Other Automotive Dealers & Service Stations	80	11.94
	Electric, Gas And Sanitary Services	70	10.45
	Nondurable Goods Manufacturing	55	8.21
	All Other Transportation And Public Utilities	55	8.21
	All Other Machinery, Except Electrical	50	7.46
	All Other Electrical And Electronic Equipment	50	7.46
	o First Line Supervisors - Production And Related	1000	100.00
	All Other Nondurable Goods Manufacturing	230	23.00
	Communication Equipment	200	20.00
	All Other Durable Goods Manufacturing	150	15.00
	Office Computing Machinery	130	13.00
	Electronic Components And Accessories	110	11.00
	All Other Machinery, Except Electrical	70	7.00
	Fabricated Metal Products	60	6.00
	Miscellaneous Plastics Products	50	5.00
	o Precision And Production Inspectors	1970	100.00
	Communication Equipment	840	42.64
	All Other Durable Goods Manufacturing	285	14.47
	Electronic Components And Accessories	180	9.14

Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry

	Employment	Percent Distribution
All Other Nondurable Goods Manufacturing	150	7.61
Office Computing Machinery	135	6.85
All Other Electrical And Electronic Equipment	85	4.32
Chemicals And Allied Products	70	3.55
Instruments And Related Products	65	3.30
All Other Machinery, Except Electrical	60	3.05
Knitting Mills	50	2.54
o Maintenance Repairers, General Utility	1150	100.00
Local Government, Except Education And Hospitals	385	33.48
All Other Service	170	14.78
Durable Goods Manufacturing	105	9.13
Finance, Insurance And Real Estate	100	8.70
Nondurable Goods Manufacturing	90	7.83
Wholesale And Retail Trade	75	6.52
All Other Health Services	65	5.65
Construction	55	4.78
All Other Business Services	50	4.35
o Automotive Mechanics	590	100.00
Motor Vehicle Dealers (new And Used)	245	41.53
All Other Automotive Dealers & Service Stations	180	30.51
All Other Wholesale And Retail Trade	55	9.32
Service	55	9.32
o Automotive Body And Related Repairers	255	100.00
Service	155	60.79
Motor Vehicle Dealers (new And Used)	80	31.37
o Heating, Air Conditioning, Refrigeration Mechs, Installers	260	100.00
Special Trade Constructors	115	44.23
Wholesale And Retail Trade	60	23.08
Durable Goods Manufacturing	55	21.15
o Carpenters	670	100.00
All Other Construction	415	61.94
Special Trade Constructors	130	19.40
Durable Goods Manufacturing	65	9.70
o Electricians	455	100.00
Special Trade Constructors	295	64.84
Durable Goods Manufacturing	105	23.08
o Painters, Paperhangers, Construction And Maintenance	250	100.00
Special Trade Constructors	60	24.00
Local Government, Except Education And Hospitals	55	22.00
All Other Construction	50	20.00
o Plumbers, Pipefitters And Steamfitters	380	100.00
Special Trade Constructors	300	78.95

Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry

	Employment	Percent Distribution
o Machinists	860	100.00
All Other Machinery, Except Electrical	280	32.56
All Other Durable Goods Manufacturing	280	32.55
Fabricated Metal Products	70	8.14
Communication Equipment	65	7.56
All Other Electrical And Electronic Equipment	65	7.56
Service	60	6.98
o Sheet Metal Workers	290	100.00
Fabricated Metal Products	110	37.93
Special Trade Constructors	65	22.41
All Other Machinery, Except Electrical	60	20.69
All Other Durable Goods Manufacturing	55	18.97
o Sheetmetal Machine Operator	330	100.00
Electronic Components And Accessories	110	33.33
All Other Machinery, Except Electrical	75	22.73
Fabricated Metal Products	65	19.70
All Other Durable Goods Manufacturing	65	19.70
o Sewing Machine Operators, Garment	620	100.00
Apparel And Other Textile Products	600	96.77
o Electromechanical Equipment Assemblers - Prec	490	100.00
All Other Durable Goods Manufacturing	255	52.04
Electronic Components And Accessories	110	22.45
Instruments And Related Products	70	14.29
All Other Electrical And Electronic Equipment	55	11.22
o Electrical And Electronic Equipment Assembler	415	100.00
Electronic Components And Accessories	180	43.38
All Other Electrical And Electronic Equipment	125	30.12
Office Computing Machinery	55	13.25
All Other Durable Goods Manufacturing	55	13.25
o Electrical And Electronic Assemblers	755	100.00
Office Computing Machinery	285	37.75
Electronic Components And Accessories	235	31.13
All Other Electrical And Electronic Equipment	125	16.55
Communication Equipment	65	8.61
o Assemblers, Fabricators - Exc Mach, Electrcel, Electrnc, Prec	1220	100.00
All Other Durable Goods Manufacturing	275	22.54
All Other Electrical And Electronic Equipment	245	20.08
Leather And Leather Products	170	13.93
All Other Machinery, Except Electrical	115	9.42
Fabricated Metal Products	100	8.20
Apparel And Other Textile Prouducts	100	8.20
Miscellaneous Plastics Products	75	6.15
Paper And Allied Products	70	5.74

**Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry**

	Employment	Percent Distribution
o Truck Drivers, Heavy	870	100.00
All Other Transportation And Public Utilities	245	28.16
All Other Wholesale And Retail Trade	140	16.09
Durable Goods Manufacturing	105	12.07
Construction	95	10.92
Nondurable Goods Manufacturing	80	9.20
Wholesale Trade-durable Goods	70	8.05
Groceries And Related Supplies	70	8.05
Electric, Gas And Sanitary Services	55	6.32
o Truck Drivers, Light - Including Delivery And Route Drivers	785	100.00
Transportation And Public Utilities	160	20.38
All Other Wholesale And Retail Trade	145	18.47
Nondurable Goods Manufacturing	95	12.10
Groceries And Related Supplies	70	8.92
All Other Business Services	70	8.92
All Other Wholesale Trade-nondurable Goods	65	8.28
All Other Service	60	7.64
Wholesale Trade-durable Goods	50	6.37
o Bus Drivers, School	390	100.00
Transportation And Public Utilities	360	92.31
o Service Station Attendants	365	100.00
All Other Automotive Dealers & Service Stations	335	91.78
o Industrial Truck And Tractor Operators	240	100.00
Nondurable Goods Manufacturing	110	45.83
Transportation And Public Utilities	60	25.00
o Helpers, All Other Construction Trades	620	100.00
Special Trade Constructors	350	56.45
All Other Construction	270	43.55
o Hand Packers And Packagers	685	100.00
Chemicals And Allied Products	165	24.09
All Other Nondurable Goods Manufacturing	160	23.35
Apparel And Accessory Stores	90	13.14
Durable Goods Manufacturing	85	12.41
Groceries And Related Supplies	65	9.49
All Other Wholesale And Retail Trade	60	8.76
Transportation And Public Utilities	55	8.03
o All Other Helpers, Laborers, Movers - Hand	6540	100.00
Communication Equipment	4370	66.82
Construction	205	3.14
All Other Durable Goods Manufacturing	190	2.90
Local Government, Except Education And Hospitals	185	2.83
Wholesale Trade-durable Goods	160	2.45
All Other Wholesale And Retail Trade	150	2.29
Chemicals And Allied Products	140	2.14
Knitting Mills	135	2.06
State Government, Except Education And Hospitals	130	1.99

Table B:
Lower Merrimack
Employment in
Selected Occupations
by Industry

	Employment	Percent Distribution
Paper And Allied Products	110	1.68
All Other Nondurable Goods Manufacturing	105	1.61
Groceries And Related Supplies	95	1.45
Fabricated Metal Products	75	1.15
All Other Automotive Dealers & Service Stations	65	0.99
Social Services	65	0.99
Office Computing Machinery	60	0.92
All Other Electrical And Electronic Equipment	60	0.92
Leather And Leather Products	55	0.84
All Other Business Services	55	0.84
Apparel And Other Textile Products	50	0.77

**Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation**

		Employment	Percent Distribution
Construction Industries	o Special Trade Contractors	3160	100.00
	Helpers, All Other Construction Trades	350	11.08
	Plumbers, Pipefitters And Steamfitters	300	9.49
	Electricians	295	9.34
	All Other Construction And Extractive Occupations	225	7.12
	Drywall Installers And Tapers	190	6.01
	General Managers And Top Executives	145	4.59
	Carpenters	130	4.11
	Bookkeeping, Accounting, Auditing Clerks	115	3.64
	Heating, Air Conditioning, Refrigeration Mechs, Installers	115	3.64
	Secretaries, Stenographers And Typists	105	3.32
	Construction Managers	85	2.69
	All Other Material Moving Equipment Operators	85	2.69
	All Other Professional, Paraprofessional And Technicians	80	2.53
	First Line Supervisors - Constuction And Related	80	2.53
	Glaziers	70	2.21
	General Office Clerk	65	2.06
	Reinforcing Metal Workers	65	2.06
	Sheet Metal Workers	65	2.06
	Management Support Occupations	60	1.90
	Concrete And Terrazzo Finishers	60	1.90
	Sheet Metal Duct Installers	60	1.90
	All Other Transportation Workers	60	1.90
	All Other Mechanics, Installers And Repairers	55	1.74
	Painters, Paperhangers, Construction And Maintenance	55	1.74
	o All Other Construction	2040	100.00
	Carpenters	415	20.34
	Helpers, All Other Construction Trades	265	12.99
	All Other Helpers, Laborers, Movers - Hand	180	8.82
	First Line Supervisors - Constuction And Related	160	7.84
	Operating Engineers	140	6.86
	Construction Managers	100	4.90
	General Managers And Top Executives	95	4.66
	Professional, Paraprofessional And Technical Occupations	95	4.66
	All Other Construction And Extractive Occupations	95	4.66
	Brick Masons And Stone Masons	85	4.17
	Secretaries, Stenographers And Typists	65	3.19
	All Other Transportation Workers	65	3.19
	Bookkeeping, Accounting, Auditing Clerks	60	2.94
	Mechanics, Installers And Repairers	60	2.94
Manufacturing Industries	o Fabricated Metal Products	2040	100.00
	All Other Metal, Plastic Machine Setters, Set-up Operators	200	9.80
	All Other Precision Workers	155	7.60
	All Other Clerical And Administrative Support Workers	140	6.86
	All Other Managers And Administrators	130	6.37
	Sheet Metal Workers	110	5.39
	All Other Metal And Plastic Machine Operators And Tenders	105	5.15
	Assemblers, Fabricators - Exc Mach, Electrlc, Electrnc, Prec	100	4.90
	Helpers, Laborers And Related	100	4.90
	All Other Professional, Paraprofessional And Technicians	95	4.66
	All Other Machine Operators	85	4.17
	Metal Fabricators, Structural Metal Products	80	3.92
	Electrolytic Plating, Coating Machine Setters, Set-up Ops	80	3.92
	Material Recording, Scheduling, Dispatching, Distributing	75	3.68
	All Other Precision Metal Workers	75	3.68

**Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation**

	Employment	Percent Distribution
Machinists	70	3.43
Sheetmetal Machine Operator	65	3.19
General Managers And Top Executives	60	2.94
First Line Supervisors - Production And Related	60	2.94
All Other Hand Workers	55	2.70
o Office Computing Machinery	2820	100.00
Electrical And Electronic Assemblers	285	10.11
All Other Clerical And Administrative Support Workers	220	7.80
All Other Professional, Paraprofessional And Technicians	195	6.92
All Other Managers And Administrators	170	6.03
Electrical, Electronic Engineerng Technicians, Technologists	165	5.85
All Other Hand Workers	165	5.85
Electrical And Electronic Engineers	160	5.67
All Other Engineering Technicians And Technologists	150	5.32
Precision And Production Inspectors	135	4.79
First Line Supervisors - Production And Related	130	4.61
Management Support Occupations	115	4.08
Secretaries, Stenographers And Typists	90	3.19
Production, Planning, Expediting Clerks	85	3.01
Sales And Related Occupations	75	2.66
Industrial And Safety Engineers	70	2.48
Machine Builders And Other Precision Machine	70	2.48
Engineering, Mathematical And Natural Science Managers	65	2.30
Stock Clerks - Stockroom, Warehouse And Storage Yard	65	2.30
Mechanics, Installers And Repairers	65	2.31
Machine Setters, Set-up Operators, Operators And Tenders	65	2.31
All Other Engineers	60	2.13
Helpers, Laborers And Related	60	2.13
Electrical And Electronic Equipment Assembler	55	1.95
o All Other Machinery, Except Electrical	2275	100.00
Machinists	270	11.87
All Other Clerical And Administrative Support Workers	235	10.33
All Other Metal, Plastic Machine Setters, Set-up Operators	175	7.69
All Other Managers And Administrators	140	6.15
Sales And Related Occupations	130	5.71
General Managers And Top Executives	110	4.83
Material Recording, Scheduling, Dispatching, Distributing	90	3.95
Engineering And Related Technicians And Technologists	80	3.51
Assemblers, Fabricators - Exc Mach, Electrol, Electrmc, Prec	80	3.51
Sheetmetal Machine Operator	75	3.30
All Other Precision Metal Assemblers	75	3.30
All Other Hand Workers	75	3.30
First Line Supervisors - Production And Related	70	3.08
Numerical Control Machine Tool Operators, Tenders, Met, Plas	70	3.08
Precision And Production Inspectors	60	2.63
Mechanics, Installers And Repairers	60	2.64
Sheet Metal Workers	60	2.64
All Other Metal And Plastic Machine Operators And Tenders	60	2.64
Management Support Occupations	55	2.42
All Other Professional, Paraprofessional And Technicians	55	2.42
All Other Precision Workers	55	2.42
o Communication Equipment	9065	100.00
Helpers, Laborers And Related	4370	48.21
Precision And Production Inspectors	840	9.27
Electrical And Electronic Engineers	570	6.29
Management Support Occupations	525	5.79

Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation

	Employment	Percent Distribution
Mechanics, Installers And Repairers	355	3.92
Engineering, Mathematical And Natural Science Managers	295	3.25
All Other Clerical And Administrative Support Workers	210	2.32
First Line Supervisors - Production And Related	205	2.26
Production, Planning, Expediting Clerks	155	1.71
All Other Professional, Paraprofessional And Technicians	130	1.43
Secretaries, Stenographers And Typists	110	1.21
Drafters	105	1.16
Systems Analysts, Electronic Data Processing	100	1.10
All Other Managers And Administrators	95	1.05
Electrical, Electronic Engineering Technicians, Technologists	95	1.05
Construction Trades, Extractive Occupations, Exc Mat Moving	80	0.88
Industrial Production Managers	75	0.83
Electronic Data Processing, Other Office Machine Occupations	75	0.83
Bookkeeping, Accounting, Auditing Clerks	70	0.77
All Other Precision Metal Assemblers	70	0.77
Tool And Die Makers	65	0.72
Machinists	65	0.72
Electrical And Electronic Assemblers	65	0.72
Stock Clerks - Stockroom, Warehouse And Storage Yard	60	0.66
All Other Precision Workers	60	0.66
o Electronic Components And Accessories	2540	100.00
Electrical And Electronic Assemblers	235	9.25
All Other Clerical And Administrative Support Workers	190	7.48
Precision And Production Inspectors	180	7.09
Electrical And Electronic Equipment Assembler	180	7.09
All Other Managers And Administrators	140	5.51
All Other Hand Workers	120	4.73
All Other Engineers	110	4.33
Engineering And Related Technicians And Technologists	110	4.33
First Line Supervisors - Production And Related	110	4.33
Electromechanical Equipment Assemblers - Prec	110	4.33
Material Recording, Scheduling, Dispatching, Distributing	105	4.13
Sheetmetal Machine Operator	105	4.13
All Other Metal, Plastic Machine Setters, Set-up Operators	105	4.13
All Other Metal And Plastic Machine Operators And Tenders	105	4.13
Management Support Occupations	85	3.35
Sales And Related Occupations	80	3.15
Precision Metal Workers	65	2.56
Industrial Production Managers	60	2.36
Machine Tool Cutting Operators	60	2.36
All Other Machine Operators	60	2.36
Electrical And Electronic Engineers	55	2.17
o All Other Electrical And Electronic Equipment	2110	100.00
Managerial And Administrative Occupations	200	9.48
Assemblers, Fabricators - Exc Mach, Electrl, Electrnc, Prec	200	9.48
All Other Clerical And Administrative Support Workers	195	9.24
All Other Hand Workers	140	6.64
All Other Professional, Paraprofessional And Technicians	125	5.92
Electrical And Electronic Assemblers	125	5.92
Electrical And Electronic Equipment Assembler	115	5.45
Electrical And Electronic Engineers	95	4.50
Sales And Related Occupations	95	4.50
Management Support Occupations	90	4.26
Electrical, Electronic Engineering Technicians, Technologists	85	4.03
Precision And Production Inspectors	85	4.03
First Line Supervisors, Manager/supers - Prod, Constr, Maint	65	3.08
All Other Metal, Plastic Machine Setters, Set-up Operators	65	3.08

**Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation**

	Employment	Percent Distribution
All Other Machine Operators	60	2.84
All Other Engineering Technicians And Technologists	55	2.61
Precision Metal Workers	55	2.61
All Other Metal And Plastic Machine Operators And Tenders	55	2.61
o Instruments And Related Products	1355	100.00
Managerial And Administrative Occupations	190	14.02
Electrical And Electronic Engineers	180	13.28
Clerical And Administrative Support Occupations	145	10.70
Electrical, Electronic Engineering Technicians, Technologists	130	9.59
Precision Production Occupations	115	8.49
Management Support Occupations	90	6.64
All Other Professional, Paraprofessional And Technicians	80	5.90
All Other Engineers	70	5.17
Sales And Related Occupations	70	5.17
Electromechanical Equipment Assemblers - Prec	70	5.17
Precision And Production Inspectors	65	4.80
All Other Precision Metal Assemblers	60	4.43
All Other Hand Workers	60	4.43
o All Other Durable Goods Manufacturing	9260	100.00
Mechanical Engineers	940	10.15
All Other Professional, Paraprofessional And Technicians	670	7.24
Electrical And Electronic Engineers	515	5.56
All Other Management Support Workers	485	5.24
All Other Clerical And Administrative Support Workers	465	5.02
All Other Machine Operators	430	4.64
Secretaries, Stenographers And Typists	405	4.37
All Other Managers And Administrators	335	3.62
Accountants, Auditors And Other Financial Specialists	290	3.13
Assemblers, Fabricators - Exc Mach, Electrcel, Electrmc, Prec	255	2.75
Electromechanical Equipment Assemblers - Prec	235	2.54
Machinists	230	2.48
Helpers, Laborers And Related	215	2.32
Precision And Production Inspectors	205	2.21
Industrial Production Managers	200	2.16
Mechanics, Installers And Repairers	175	1.89
Aeronautical And Astronautical Engineers	170	1.84
All Other Metal, Plastic Machine Setters, Set-up Operators	165	1.78
Purchasing Agents - Exc Wholesale, Retail & Farm Products	150	1.62
All Other Precision Workers	145	1.57
All Other Metal And Plastic Machine Operators And Tenders	130	1.40
Mechanical Engineering Technicians And Technologists	125	1.35
Woodworking Machine Operators And Tenders, Except Sawing	125	1.35
Electronic Data Processing, Other Office Machine Occupations	120	1.30
Production, Planning, Expediting Clerks	120	1.30
All Other Precision Woodworkers	115	1.24
Construction Trades, Extractive Occupations, Exc Mat Moving	105	1.13
Systems Analysts, Electronic Data Processing	100	1.08
General Office Clerk	95	1.03
Cabinetmakers And Bench Carpenters	95	1.03
General Managers And Top Executives	90	0.97
Janitors And Cleaners	90	0.97
First Line Supervisors - Production And Related	90	0.97
All Other Hand Workers	85	0.92
Drafters	80	0.86
All Other Precision Metal Workers	80	0.86
Stock Clerks - Stockroom, Warehouse And Storage Yard	75	0.81
Truck Drivers, Heavy	75	0.81
All Other Sales And Related Workers	70	0.76

Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation

	Employment	Percent Distribution
Industrial And Safety Engineers	65	0.70
Electrical, Electronic Engineerng Technicians, Technologists	65	0.70
Sales Reps, Exc Scientific And Related Products Or Services	65	0.70
Guards And Watch Guards	65	0.70
All Other Service Workers	65	0.70
Computer Programmers	60	0.65
Writers And Editors, Including Technical Writers	60	0.65
Engineering, Mathematical And Natural Science Managers	55	0.60
Personnel, Training And Labor Relations Specialists	55	0.60
Traffic, Shipping And Receiving Clerks	55	0.60
o Food And Kindred Products	1130	100.00
Packaging And Filling Machine Operators	215	19.03
Clerical And Administrative Support Occupations	200	17.70
Managerial And Administrative Occupations	125	11.06
All Other Precision Workers	115	10.18
All Other Machine Operators	85	7.52
Sales And Related Occupations	70	6.20
Professional, Paraprofessional And Technical Occupations	65	5.75
Helpers, Laborers And Related	60	5.31
o Knitting Mills	1195	100.00
Machine Setters, Set-up Operators, Operators And Tenders	265	22.18
Helpers, Laborers And Related	165	13.81
All Other Clerical And Administrative Support Workers	140	11.72
Mechanics, Installers And Repairers	100	8.37
Managerial And Administrative Occupations	70	5.86
First Line Supervisors - Service	65	5.44
Cleaning, Building Service Occupations, Exc Private Househlds	60	5.02
Professional, Paraprofessional And Technical Occupations	55	4.60
Material Recording, Scheduling, Dispatching, Distributing	55	4.60
First Line Supervisors, Manager/supers - Prod, Constr, Maint	55	4.60
Precision And Production Inspectors	50	4.18
o Apparel And Other Textile Prouducts	1385	100.00
Sewing Machine Operators, Garment	600	43.32
Clerical And Administrative Support Occupations	125	9.03
Precision Production Occupations	105	7.58
Assemblers, Fabricators - Exc Mach, Electrcrl, Electrnc, Prec	100	7.22
Hand Sewers	85	6.14
All Other Machine Operators	65	4.69
All Other Hand Workers	65	4.70
Sewing Machine Operators, Non-garment	60	4.33
Helpers, Laborers And Related	60	4.33
o Paper And Allied Products	1050	100.00
All Other Machine Operators	235	22.38
Helpers, Laborers And Related	185	17.62
Clerical And Administrative Support Occupations	130	12.38
Paper Goods Machine Setters And Set-up Operators	120	11.43
Assemblers, Fabricators - Exc Mach, Electrcrl, Electrnc, Prec	70	6.67
Managerial And Administrative Occupations	65	6.19
Precision Production Occupations	60	5.71
Transportation, Material Moving Machine And Vehicle Operators	60	5.71
o Printing And Publishing	1150	100.00
All Other Clerical And Administrative Support Workers	240	20.87

**Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation**

	Employment	Percent Distribution
All Other Machine Operators	130	11.30
Precision Printing Workers	115	10.00
Reporters And Correspondents	100	8.70
Sales And Related Occupations	100	8.69
All Other Professional, Paraprofessional And Technicians	80	6.96
Other Precision Workers	75	6.52
Material Recording, Scheduling, Dispatching, Distributing	65	5.65
General Managers And Top Executives	60	5.22
All Other Transportation Workers	55	4.78
o Chemicals And Allied Products	1320	100.00
Clerical And Administrative Support Occupations	175	13.26
Hand Packers And Packagers	165	12.50
All Other Helpers, Laborers, Movers - Hand	155	11.74
All Other Professional, Paraprofessional And Technicians	115	8.71
Managerial And Administrative Occupations	110	8.33
All Other Machine Operators	100	7.58
Precision And Production Inspectors	70	5.30
First Line Supervisors, Manager/supers - Prod, Constr, Maint	65	4.92
Management Support Occupations	60	4.55
All Other Machinery Maintenance Mechanics	60	4.54
o Miscellaneous Plastics Products	1415	100.00
All Other Metal And Plastic Machine Operators And Tenders	195	13.78
Clerical And Administrative Support Occupations	140	9.89
Plastic Molding, Casting Machine Operators And Tenders	135	9.54
Professional, Paraprofessional And Technical Occupations	120	8.48
Precision Production Occupations	105	7.42
Extruding, Drawing Machine Setters, Set-up Ops, Metal And Pla	100	7.07
Managerial And Administrative Occupations	95	6.71
All Other Machine Operators	85	6.01
Assemblers, Fabricators - Exc Mach, Electrcel, Electrmc, Prec	75	5.30
Helpers, Laborers And Related	75	5.30
Sales Reps, Exc Scientific And Related Products Or Services	55	3.89
All Other Metal, Plastic Machine Setters, Set-up Operators	55	3.89
Cutters And Trimmers, Hand	55	3.89
o Leather And Leather Products	1450	100.00
Shoe And Leather Workers And Repairers - Precision	230	15.86
All Other Machine Operators	210	14.48
Assemblers, Fabricators - Exc Mach, Electrcel, Electrmc, Prec	170	11.73
Clerical And Administrative Support Occupations	125	8.62
All Other Precision Workers	125	8.62
Textile Draw-out Machine Operators And Tenders	125	8.62
Helpers, Laborers And Related	105	7.24
Shoe Sewing Machine Operators	90	6.21
Managerial And Administrative Occupations	75	5.17
All Other Hand Workers	75	5.17
o All Other Nondurable Goods Manufacturing	1105	100.00
All Other Machine Operators	310	28.05
Clerical And Administrative Support Occupations	165	14.93
Precision Production Occupations	110	9.96
Textile Machine Ops, Tenders - Winding, Twisting, Knitting	70	6.34
General Managers And Top Executives	60	5.43
Helpers, Laborers And Related	60	5.43
Hand Working Occupations, Including Assemblers, Fabricators	55	4.98
Transportation, Material Moving Machine And Vehicle Operators	55	4.98

**Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation**

		Employment	Percent Distribution
Transportation, Communications & Utilities	o Electric, Gas And Sanitary Services	1045	100.00
	All Other Clerical And Administrative Support Occupations	205	19.62
	All Other Mechanics, Installers And Repairers	165	15.79
	Electric Powerline Installers And Repairers	130	12.44
	Professional, Paraprofessional And Technical Occupations	90	8.61
	First Line Supervisors - Mechanics And Repairers	70	6.70
	Managerial And Administrative Occupations	55	5.26
	Meter Readers, Utilities	55	5.26
	Truck Drivers, Heavy	55	5.26
	o All Other Transportation And Public Utilities	4000	100.00
	First Line Supervisors - Clerical And Administrative Clerks	440	11.00
	Bus Drivers, School	365	9.13
	General Office Clerk	285	7.13
	Truck Drivers, Heavy	245	6.13
	Station Installers And Repairers, Telephone	240	6.00
	All Other Clerical And Administrative Support Workers	190	4.75
	All Other Professional, Paraprofessional And Technicians	180	4.50
	Central Office And Pbx Installers And Repairers	170	4.25
	Emergency Medical Technicians	155	3.88
	Customer Service Representative, Utilities	150	3.75
	Truck Drivers, Light - Including Delivery And Route Drivers	150	3.75
	Travel Agents	145	3.63
	Bus Drivers	130	3.25
	Central Office Operators	120	3.00
	Bookkeeping, Accounting, Auditing Clerks	100	2.50
	Electric Powerline Installers And Repairers	100	2.50
	Production, Planning, Expediting Clerks	90	2.25
	Taxi Drivers And Chauffeurs	70	1.75
	Communications, Transportation, Utilities Operations Managers	65	1.63
	Telephone And Cable Tv Line Installers And Repairers	65	1.63
	First Line Supervisors - Mechanics And Repairers	55	1.37
	All Other Mechanics, Installers And Repairers	55	1.37
	Hand Packers And Packagers	55	1.37
Wholesale & Retail Trade Industries	o Wholesale Trade-durable Goods	2875	100.00
	Mechanics, Installers And Repairers	275	9.57
	Sales Reps, Exc Scientific And Related Products Or Services	215	7.48
	All Other Clerical And Administrative Support Workers	205	7.13
	Helpers, Laborers And Related	170	5.91
	Sales Reps, Scientific And Related Products And Services	165	5.74
	General Managers And Top Executives	160	5.57
	Bookkeeping, Accounting, Auditing Clerks	120	4.17
	Secretaries, Stenographers And Typists	115	4.00
	All Other Sales And Related Workers	110	3.83
	All Other Managers And Administrators	105	3.65
	General Office Clerk	100	3.48
	Order Clerks - Materials, Merchandise And Service	90	3.13
	Precision Production Occupations	90	3.13
	Salespersons, Retail Trade	80	2.78
	Electrical, Electronic Engineering Technicians, Technologists	75	2.61
	Sales Engineers	70	2.43
	Traffic, Shipping And Receiving Clerks	70	2.44
	Truck Drivers, Heavy	70	2.44
	First Line Supervisors And Manager/supervisors - Sales And Re	65	2.26
	First Line Supervisors - Clerical And Administrative Clerks	65	2.26
	Stock Clerks - Stockroom, Warehouse And Storage Yard	65	2.26
	First Line Supervisors, Manager/supers - Prod, Constr, Maint	65	2.26
	Electrical And Electronic Engineers	55	1.91

**Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation**

	Employment	Percent Distribution
o Groceries And Related Supplies	1225	100.00
All Other Clerical And Administrative Support Workers	195	15.92
Sales Reps, Exc Scientific And Related Products Or Services	155	12.65
Food And Beverage Preparation And Service Workers	140	11.43
All Other Helpers, Laborers, Movers - Hand	95	7.75
Truck Drivers, Heavy	70	5.71
Truck Drivers, Light - Including Delivery And Route Drivers	70	5.71
Managerial And Administrative Occupations	65	5.31
All Other Material Moving Equipment Operators	65	5.31
Hand Packers And Packagers	65	5.31
All Other Sales And Related Workers	60	4.90
Material Recording, Scheduling, Dispatching, Distributing	60	4.90
Professional, Paraprofessional And Technical Occupations	55	4.49
First Line Supervisors And Manager/supervisors - Sales And Re	55	4.49
o All Other Wholesale Trade-nondurable Goods	1070	100.00
All Other Clerical And Administrative Support Workers	220	20.56
Sales Reps, Exc Scientific And Related Products Or Services	155	14.49
All Other Sales And Related Workers	155	14.49
General Managers And Top Executives	85	7.94
Truck Drivers, Light - Including Delivery And Route Drivers	65	6.08
Helpers, Laborers And Related	65	6.07
Order Fillers, Wholesale And Retail Sales	55	5.14
Traffic, Shipping And Receiving Clerks	55	5.14
o Department Stores	1505	100.00
Salespersons, Retail Trade	630	41.86
Cashiers	185	12.29
All Other Clerical And Administrative Support Workers	165	10.96
Stock Clerks, Sales Floor	80	5.32
Mechanics, Installers And Repairers	70	4.65
All Other Managers And Administrators	65	4.32
Material Recording, Scheduling, Dispatching, Distributing	65	4.32
Service Occupations	65	4.32
General Managers And Top Executives	60	3.99
All Other Sales And Related Workers	55	3.65
o Food Stores	2570	100.00
Cashiers	800	31.13
Stock Clerks, Sales Floor	605	23.54
All Other Sales And Related Workers	240	9.34
First Line Supervisors And Manager/supervisors - Sales And Re	165	6.42
All Other Food Service Workers	145	5.64
Salespersons, Retail Trade	110	4.28
All Other Clerical And Administrative Support Workers	80	3.11
Butchers And Meat Cutters	80	3.11
General Managers And Top Executives	75	2.92
Stock Clerks - Stockroom, Warehouse And Storage Yard	75	2.92
o Motor Vehicle Dealers (new And Used)	1160	100.00
Automotive Mechanics	245	21.12
Salespersons, Retail Trade	230	19.83
All Other Clerical And Administrative Support Workers	145	12.50
First Line Supervisors - Mechanics And Repairers	85	7.33
Automotive Body And Related Repairers	80	6.90
Helpers, Laborers And Related	80	6.90
Salespersons, Parts	70	6.04

**Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation**

	Employment	Percent Distribution
o All Other Automotive Dealers & Service Stations	1255	100.00
Service Station Attendants	335	26.69
Cashiers	235	18.73
Automotive Mechanics	180	14.34
Clerical And Administrative Support Occupations	115	9.16
All Other Sales And Related Workers	110	8.77
First Line Supervisors - Mechanics And Repairers	75	5.98
All Other Mechanics, Installers And Repairers	65	5.18
o Apparel And Accessory Stores	1525	100.00
Salespersons, Retail Trade	755	49.51
Clerical And Administrative Support Occupations	200	13.11
General Managers And Top Executives	120	7.87
Hand Packers And Packagers	90	5.90
Stock Clerks, Sales Floor	80	5.25
First Line Supervisors And Manager/supervisors - Sales And Re	75	4.92
Cashiers	70	4.59
Precision Production Occupations	65	4.26
o Eating And Drinking Places	6380	100.00
Waiters And Waitresses	1790	28.06
All Other Food Service Workers	820	12.85
Cooks, Speciality Fast Food And Fast Food	465	7.29
Cashiers	450	7.05
Cooks, Restaurant	440	6.90
Bartenders	395	6.19
Food Preparation Workers	390	6.11
Dining Room, Counter And Cafe Attendants	375	5.88
General Managers And Top Executives	265	4.15
Food Service And Lodging Managers	175	2.74
Hosts And Hostesses	175	2.74
All Other Clerical And Administrative Support Workers	105	1.65
First Line Supervisors - Service	105	1.65
Driver/sales Workers	90	1.41
Professional, Paraprofessional And Technical Occupations	70	1.10
All Other Sales And Related Workers	65	1.02
All Other Cleaning And Building Service Workers	60	0.94
Bookkeeping, Accounting, Auditing Clerks	55	0.86
o Commercial And Stock Savings Banks	1405	100.00
Tellers	435	30.96
All Other Clerical And Administrative Support Workers	300	21.35
Financial Managers	115	8.18
Loan Officers And Counselors	115	8.19
New Accounts Clerks	110	7.83
General Managers And Top Executives	70	4.98
Loan And Credit Clerks	65	4.63
All Other Management Support Workers	60	4.27
First Line Supervisors - Clerical And Administrative Clerks	60	4.27
o Mutual Savings Banks	1110	100.00
Tellers	570	51.35
All Other Clerical And Administrative Support Workers	145	13.06
Managerial And Administrative Occupations	95	8.56
First Line Supervisors - Clerical And Administrative Clerks	75	6.76
New Accounts Clerks	75	6.76
Loan And Credit Clerks	75	6.76

**Finance,
Insurance &
Real Estate**

**Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation**

		Employment	Percent Distribution
Service Industries	o All Other Finance, Insurance And Real Estate	2530	100.00
	Sales Agents And Placers, Insurance	355	14.03
	All Other Clerical And Administrative Support Workers	250	9.88
	Secretaries, Stenographers And Typists	195	7.71
	General Managers And Top Executives	160	6.32
	General Office Clerk	160	6.32
	Insurance Policy Processing Clerks	135	5.34
	First Line Supervisors And Manager/supervisors - Sales And Re	105	4.15
	First Line Supervisors - Clerical And Administrative Clerks	100	3.95
	Bookkeeping, Accounting, Auditing Clerks	100	3.95
	Maintenance Repairers, General Utility	100	3.95
	Financial Managers	95	3.76
	Property And Real Estate Managers And Administrators	85	3.36
	All Other Management Support Workers	85	3.36
	All Other Professional, Paraprofessional And Technicians	70	2.77
	Tellers	70	2.77
	Underwriters	65	2.57
	Adjusters, Examiners, Investigators	65	2.57
	All Other Sales And Related Workers	60	2.37
	Brokers And Sales Agents, Real Estate	55	2.17
	Insurance Claims Clerks	55	2.17
	o Personal Services	1380	100.00
	Cosmetologists And Related	275	19.93
	All Other Service Workers	215	15.58
	Counter And Rental Clerks	150	10.87
	College And University Faculty	135	9.78
	Laundry And Drycleaning Machine Operators	125	9.06
	Clerical And Administrative Support Occupations	90	6.52
	Cashiers	85	6.16
	Precision Production Occupations	60	4.35
	General Managers And Top Executives	55	3.99
	o Services To Dwellings And Other Buildings	1065	100.00
	Janitors And Cleaners	620	58.22
	All Other Cleaning And Building Service Workers	150	14.08
	Janitors And Cleaners, Including Housekeepers And Maids	135	12.68
	Production, Construction And Maintenance Occupations	50	4.69
	o Miscellaneous Business Services	1690	100.00
	Guards And Watch Guards	380	22.49
	All Other Clerical And Administrative Support Workers	185	10.95
	All Other Professional, Paraprofessional And Technicians	160	9.47
	All Other Managers And Administrators	145	8.58
	Engineers	115	6.80
	Secretaries, Stenographers And Typists	95	5.62
	General Managers And Top Executives	90	5.32
	Physical Scientists	85	5.03
	Counter And Rental Clerks	85	5.03
	Management Support Occupations	80	4.73
	First Line Supervisors - Clerical And Administrative Clerks	75	4.44
	All Other Sales And Related Workers	60	3.55
	Bill And Account Collectors	50	2.96

**Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation**

	Employment	Percent Distribution
o All Other Business Services	1645	100.00
All Other Clerical And Administrative Support Workers	235	14.29
All Other Professional, Paraprofessional And Technicians	230	13.98
Sales And Related Occupations	115	6.99
Secretaries, Stenographers And Typists	115	6.99
Nurse Aides, Orderlies And Attendants	110	6.69
Electrical And Electronic Engineers	105	6.38
Engineering, Mathematical And Natural Science Managers	100	6.08
Computer Programmers	90	5.47
General Managers And Top Executives	80	4.86
All Other Managers And Administrators	75	4.56
Typists And Word Processors	70	4.26
Management Support Occupations	65	3.95
Helpers, Laborers And Related	60	3.65
Electronic Data Processing, Other Office Machine Occupations	55	3.34
Truck Drivers, Light - Including Delivery And Route Drivers	55	3.34
o Office Of Physicians	1230	100.00
Radiologic Technicians	600	48.78
All Other Clerical And Administrative Support Workers	185	15.04
Medical Secretaries	155	12.60
Physicians And Surgeons	90	7.32
Registered Nurses	85	6.91
All Other Professional, Paraprofessional And Technicians	70	5.69
o Nursing And Personal Care Facilities	2935	100.00
Nurse Aides, Orderlies And Attendants	1200	40.89
Food Preparation Workers	255	8.69
Licensed Practical Nurses	235	8.01
Registered Nurses	230	7.84
Janitors And Cleaners, Including Housekeepers And Maids	145	4.94
All Other Professional, Paraprofessional And Technicians	135	4.60
Clerical And Administrative Support Occupations	115	3.92
Janitors And Cleaners	110	3.75
All Other Health Servicers	90	3.07
Laundry And Drycleaning Machine Operators	85	2.90
All Other Food Service Workers	75	2.55
Managerial And Administrative Occupations	70	2.38
Therapists	65	2.21
Cooks, Institution Or Cafe	65	2.21
o Hospitals	4485	100.00
Registered Nurses	1215	27.09
Licensed Practical Nurses	335	7.47
Nurse Aides, Orderlies And Attendants	320	7.14
All Other Clerical And Administrative Support Workers	275	6.13
All Other Health Professionals And Others	235	5.24
Medical And Clinical Laboratory Technologists And Technicians	170	3.79
General Office Clerk	165	3.68
Janitors And Cleaners, Including Housekeepers And Maids	145	3.23
Waiters And Waitresses	140	3.12
All Other Managers And Administrators	120	2.68
All Other Health Servicers	120	2.68
Radiologic Technicians	115	2.56
All Other Professional, Paraprofessional And Technicians	110	2.45
All Other Food Service Workers	110	2.45
Interview Clerks, Except Personnel And Welfare	105	2.34
Secretaries, Stenographers And Typists	100	2.23

**Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation**

	Employment	Percent Distribution
Medical And Health Service Managers	95	2.12
Precision Production Occupations	80	1.78
Respiratory Therapists	75	1.67
Janitors And Cleaners	70	1.56
Receptionists And Information Clerks	65	1.45
Food Preparation Workers	60	1.34
All Other Therapists	55	1.23
o All Other Health Services	2050	100.00
Dental Assistants	195	9.51
Home Health Aides	175	8.54
All Other Health Professionals And Others	170	8.29
Nurse Aides, Orderlies And Attendants	160	7.81
Registered Nurses	145	7.07
Dental Hygienists	145	7.07
All Other Professional, Paraprofessional And Technicians	110	5.37
Dentists	100	4.88
Medical Secretaries	95	4.64
All Other Clerical And Administrative Support Workers	90	4.39
Social Welfare Service Aides	90	4.39
Social Workers, Medical And Non-medical	85	4.15
General Office Clerk	75	3.66
General Managers And Top Executives	65	3.17
Medical And Clinical Laboratory Technologists And Technicians	65	3.17
Medical And Health Service Managers	55	2.68
Secretaries	55	2.68
Receptionists And Information Clerks	55	2.68
o Elementary And Secondary Schools	6990	100.00
Teachers, Elementary	1740	24.89
Teachers, Secondary School	1190	17.02
Teacher Aides, Paraprofessional	510	7.30
Teachers, Special Education	475	6.80
Janitors And Cleaners	400	5.72
College And University Faculty	355	5.08
Education Administrators	280	4.01
Secretaries, Stenographers And Typists	230	3.29
Food Preparation Workers	185	2.65
All Other Clerical And Administrative Support Workers	140	2.00
Protective Service Occupations	140	2.00
Teachers, Preschool And Kindergarden	135	1.93
Teacher Aides And Education Assistants	135	1.93
Cooks, Institution Or Cafe	135	1.93
All Other Teachers And Related Workers	120	1.72
All Other Professional, Paraprofessional And Technicians	115	1.65
Instructors And Coaches, Sports	95	1.36
All Other Managers And Administrators	80	1.14
General Office Clerk	80	1.14
All Other Food Service Workers	75	1.07
Vocational And Educational Counselors	65	0.93
All Other Health Professionals And Others	65	0.93
Librarians, Professional	55	0.79
Registered Nurses	55	0.79
o Social Services	2265	100.00
Social Workers, Medical And Non-medical	300	13.25
All Other Managers And Administrators	185	8.17
Teachers, Preschool And Kindergarden	180	7.95
Social Service Technicians	150	6.62

**Table C:
Lower Merrimack
Employment in
Selected Industries
by Occupation**

Selected Industries by Occupation		Employment	Percent Distribution	
		General Managers And Top Executives	120	5.30
		All Other Clerical And Administrative Support Workers	110	4.86
		Secretaries, Stenographers And Typists	100	4.42
		Social Welfare Service Aides	100	4.41
		Teacher Aides And Education Assistants	95	4.19
		First Line Supervisors - Service	90	3.97
		Child Care Workers	90	3.97
		Vocational And Educational Counselors	85	3.75
		All Other Teachers And Related Workers	75	3.31
		Health Service And Related Occupations	75	3.31
		Registered Nurses	70	3.09
		Food And Beverage Preparation And Service Workers	65	2.87
		Helpers, Laborers And Related	65	2.87
		Typists And Word Processors	60	2.65
		All Other Health Professionals And Others	55	2.43
		Bookkeeping, Accounting, Auditing Clerks	55	2.43
Government	o	State Government, Except Education And Hospitals	355	100.00
		Helpers, Laborers And Related	130	36.62
		Clerical And Administrative Support Occupations	55	15.49
	o	Local Government, Except Education And Hospitals	3615	100.00
		Maintenance Repairers, General Utility	385	10.65
		Administrative Service Managers	370	10.24
		Fire Fighters	285	7.88
		All Other Professional, Paraprofessional And Technicians	245	6.78
		Police Detectives And Investigators	240	6.64
		General Office Clerk	200	5.53
		All Other Clerical And Administrative Support Workers	195	5.39
		Helpers, Laborers And Related	185	5.12
		Secretaries, Stenographers And Typists	155	4.29
		Highway Maintenance Workers	140	3.87
		Pub Admin Chief Executives, Legislators, Genral Administrators	135	3.73
		Assessors	125	3.46
		Bookkeeping, Accounting, Auditing Clerks	115	3.18
		All Other Service Workers	105	2.91
		All Other Management Support Workers	95	2.63
		Precision Production Occupations	75	2.07
		Financial Managers	70	1.94
		Water And Liquid Waste Treatment Plant And System Operators	70	1.94
		All Other Managers And Administrators	65	1.80
		Construction And Building Inspectors	65	1.80
		Cleaning, Building Service Occupations, Exc Private Househlds	60	1.66
		Fire Fighting And Prevention Supervisors	55	1.52
		Painters, Paperhangers, Construction And Maintenance	55	1.52

Notes About the Data

Employment surveys frequently differ in concept and definition and thus make understanding and interpreting the data more difficult. Therefore, it is important to know how data are obtained in order to know how best to use them. The industry and occupational employment data presented in these SDA reports count jobs and are collected from surveys of Massachusetts establishments. Individuals who hold more than one job are counted at each place they work. This section presents more detail explanations of the data published in the tables.

Industry Employment Data

Industry employment data presented in Tables 2, 3, and C, and the top ten industries in Section II are derived from the Employment and Wage Program. Industries covered in this program are defined in terms of the Standard Industrial Classification (SIC) system. The SIC separates establishments' economic activities into broad sectors (manufacturing, construction, retail trade, services, etc.). Each sector is further divided into major groups (2 digit SIC), then into industry groups (3 digit SIC) and finally into industries (4 digit SIC). Revisions to the SIC are made periodically to reflect the economy's changing industrial structure. In 1987, the SIC was revised, taking into account technological changes; institutional changes

such as deregulation in the banking, communications, and transportation industries; and the tremendous expansion in the service sector that occurred since 1972.

Some of the industry employment tables presented in these SDA reports are based on the old 1972 SIC, while others are based on the 1987 SIC revision. Industry employment data in Table 3 and the top ten industries are based on 1989 data and the 1987 SIC revision. Data from 1984 to 1989, showing the average annual employment change, net change and percent change in Table 2 are based on both the 1972 SIC and 1977 supplement, and the 1987 SIC revision. Data from 1984-1987 and 1988-1989 are based on different SICs and therefore, are not strictly comparable. However, since there were no changes to the SIC at the sector level, these measures of the SDA's industry employment change present no significant comparability problems.

Table C, presenting detailed industry employment by occupation, is derived from the Occupational Employment Statistics Survey. Industry employment is based on 1987 data and the 1972 SIC and the 1977 supplement. Staffing patterns presented in Table C are published for approximately 25 industries with a thousand or more workers.

Industry staffing patterns are presented for 2 and 3 digit industries, and major groupings of industries such as durable and nondurable goods industries. Industry staffing patterns that could violate employer confidentiality are collapsed into residual industries within the sector. As a result not all residual industries are strictly comparable across all SDAs.

Occupational Employment Data

Occupational employment estimates presented in these SDA reports are derived from data collected by the Occupational Employment Statistic (OES) program. OES data are obtained from surveys of employment by occupation for over 300 industries. Employers include both part-time and full-time workers for the payroll periods on the 12th of April, May, and June.

The classification systems used in this survey were the Standard Occupational Classification (SOC) system and the 1972 SIC. The SOC was used to develop the definitions of the occupations included and the 1972 SIC was used to define the industries.

Occupational data in these SDA reports are not strictly comparable to those published in the Current Population Survey (CPS), a monthly survey of approximately 59,500 individuals conducted by the U.S. Bureau of the Census. Primarily because of the two surveys' differences in concepts and classification systems (for example, the CPS counts individuals whereas the OES survey is a count of jobs, therefore, individuals who hold more than one job are counted differently in the two surveys,) employment comparisons should not be made between the two.

Comparisons can be made for large occupations among the SDAs and between individual SDAs and the state. In general, however, it is important to remember that the occupational estimates published in this report are intended to be used as a guide to local job markets, and should not be viewed as precise estimates.

Map of Massachusetts showing numbered regions 1 through 15. Region 1 is Berkshire County. Region 2 is Franklin-Hampshire. Region 3 is Hampden County. Region 4 is Northern Worcester. Region 5 is Southern Worcester. Region 6 is Northern Middlesex. Region 7 is Alameda. Region 8 is Southern Essex. Region 9 is Alameda. Region 10 is South-West. Region 11 is Alameda. Region 12 is South-East. Region 13 is Boston. Region 14 is New Bedford, Cape Cod, & the Islands. Region 15 is Milford.

54

